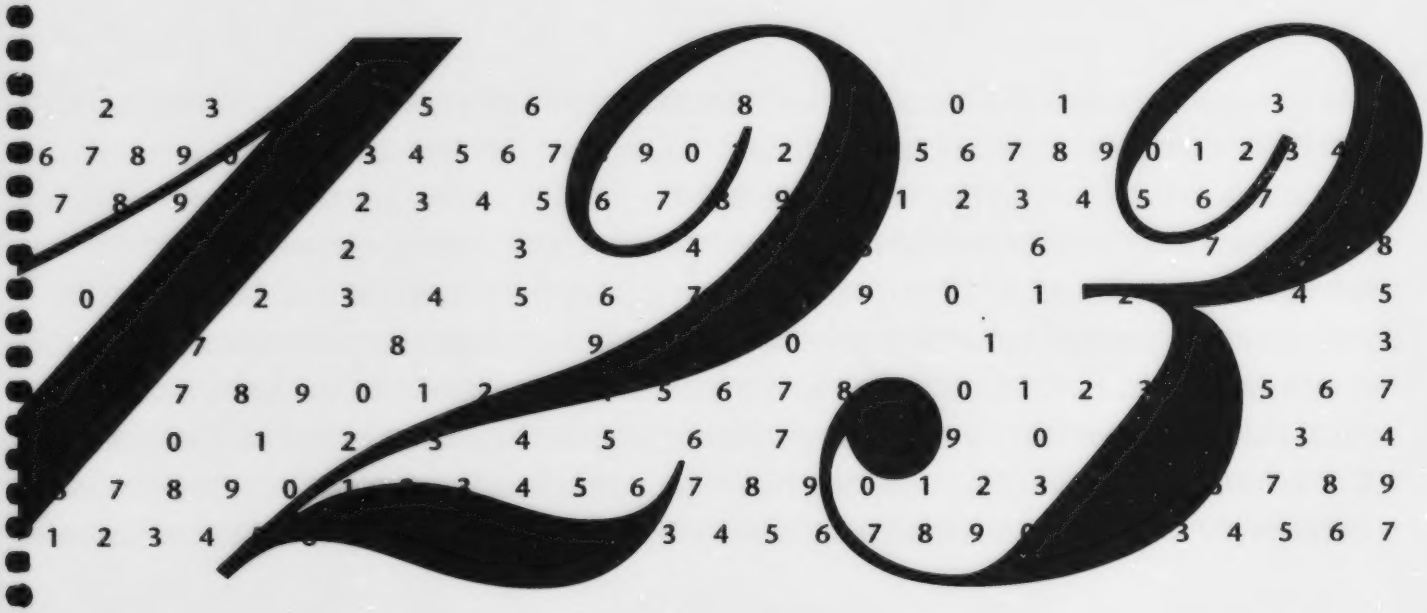
SELECTED VITAL STATISTICS AND HEALTH STATUS INDICATORS

ONE HUNDRED TWENTY-EIGHTH

Annual Report 1999

DIVISION OF VITAL STATISTICS



Vital Statistics

British Columbia
Vital Statistics Agency

Canadian Cataloguing in Publication Data

Main entry under title:
Selected vital statistics and health status indicators
... annual report. -- 119th (1990) –

Annual.
Continues: Vital statistics of the Province of British Columbia, ISSN 0702–9446
Report year ends Dec. 31.
ISSN 1188–3642 = Selected vital statistics and health status indicators ... annual report.

1. British Columbia – Statistics, Vital. I. British Columbia. Division of Vital Statistics.

HA747.B7S44 304.6'09711'021 C92–092045–4

Foreword

The British Columbia Vital Statistics Agency is pleased to present the 1999 annual report, the one hundred and twenty-eighth published since the establishment of the Division of Vital Statistics in 1872. As one of the longest continuous government publication series in British Columbia, the vital statistics annual reports have documented demographic changes and significant improvements in the health status of B.C.'s residents throughout the twentieth century.

The 1999 annual report presents vital event-related data based on information collected by the Agency from registration documents of births, deaths, and marriages, and updates the provisional statistics which are released throughout the year in the Agency's *Quarterly Digest*. Many of the tables and statistics in this report have become standard population health status indicators that are widely used by regional and provincial health care planners and managers.

This publication contains over 80 tables, figures, and maps that summarize selected information about the health of British Columbians. The report also includes a detailed glossary defining the terms and statistical methods used in the body of the publication, and a list of the Agency's recent publications. An index of key words is presented on the inside back cover to assist locating topics of interest. This report also includes a set of Information Boxes which supplement standard tables, highlight the results of recent research projects, or provide frequently requested information not presented elsewhere in the report. Of particular interest in this year's report are the Information Boxes on infant mortality in the Status Indian population and mortality trends among children and the very elderly.

Throughout the report, key indicators are presented for the Ministry of Health's revised health regions (HR) and local health areas (LHA). The boundaries of these standard data dissemination areas correspond to those of the Regional Health Boards, Community Health Service Societies, and Community Health Councils. In addition, summary data for incorporated communities in the province are presented in Appendix 1.

Vital Statistics would like to acknowledge the assistance of the many health professionals and institutions who are responsible for ensuring the accurate recording of vital events. This publication is the culmination of efforts from many groups and individuals who contribute to the continual improvement in the quality of the data and this publication.

R.J. Danderfer
CEO/Director
British Columbia Vital Statistics Agency

This annual report is also available on our website:

http://www.hlth.gov.bc.ca/vs/

Readers who wish to obtain additional copies of the 1999 Vital Statistics Annual Report can do so through:

Crown Publications
521 Fort Street
Victoria, B.C. V8W 1E7
Telephone (250) 386-4636
Facsimile (250) 386-0221

Table of Contents

I. INTRODUCTION

INTRODUCTION 3
FIGURE 1 Local Health Area Map, British Columbia (map) 5
FIGURE 2 Health Region Map, British Columbia (map) 6

II. VITAL EVENTS-RELATED STATISTICS

SUMMARY 9
TABLE 1 Live Births, Deaths, Marriages and Stillbirths, British Columbia, 1950–1999 10
FIGURE 3 Crude Rates of Live Births, Deaths, Marriages and Stillbirths, British Columbia, 1950–1999 .. 11
TABLE 2 Trends of Natural Population Increases, British Columbia and Canada, 1950–1999 12
FIGURE 4 Trends of Natural Population Increases, British Columbia and Canada, 1950–1999 12
TABLE 3 Trends of Total Fertility Rates, British Columbia and Canada, 1950–1999 13
FIGURE 5 Trends of Total Fertility Rates, British Columbia and Canada, 1950–1999 13
TABLE 4 Trends of Infant Mortality, British Columbia and Canada, 1965–1999 14
FIGURE 6 Trends of Infant Mortality, British Columbia and Canada, 1965–1999 15
TABLE 5 Trends in Age of Bride and Groom, British Columbia, 1977–1999 16
FIGURE 7 Trends in Age of Bride and Groom, British Columbia, 1977–1999 16
TABLE 6 Live Births, Deaths, Marriages and Stillbirths by Month, British Columbia, 1999 17
FIGURE 8 Live Births, Deaths, Marriages and Stillbirths by Month, British Columbia, 1999 17

III. BIRTH-RELATED STATISTICS

SUMMARY 21
TABLE 7 Births by Age of Mother and Live Births by Birth Order, British Columbia, 1999 22
TABLE 8 Live Births by Age of Mother and Kind of Birth, British Columbia, 1999 25
TABLE 9 Live Births by Mode of Delivery and Age of Mother, British Columbia, 1999 26
TABLE 10 Live Births by Local Health Area and Mode of Delivery, British Columbia, 1999 28
FIGURE 9 Cesarean Deliveries of Live Born Infants by Local Health Area, British Columbia, 1999 (map) 29
TABLE 11 Live Births by Age of Father, Age of Mother and Out-of-Wedlock, British Columbia, 1999 ... 31
TABLE 12 Live Birth Fertility Rates by Local Health Area, British Columbia, 1994–1998 and 1999 32
FIGURE 10 Live Birth Teenage Fertility Rates by Local Health Area, British Columbia, 1994–1998 (map) 33
TABLE 13 Live Births by Birth Weight, Gender, and Gestational Age, British Columbia, 1999 36
TABLE 14 Live Births by Birth Weight and Age of Mother, British Columbia, 1999 37
TABLE 15 Low Birth Weight Live Births by Age of Mother and Gender, British Columbia, 1999 38
FIGURE 11 Low Birth Weight Live Births by Age of Mother, British Columbia, 1999 38
TABLE 16 Low Birth Weight Live Births by Local Health Area and Gestational Age, British Columbia, 1994–1998 and 1999 40
FIGURE 12 Low Birth Weight Live Births by Local Health Area, British Columbia, 1994–1998 (map) 41

TABLE 17	Selected Maternal Complications of Pregnancy and Delivery in Live Births by Age of Mother, British Columbia, 1994–1998 and 1999	43
TABLE 18	Maternal Complications of Pregnancy and Delivery in Live Births by Local Health Area, British Columbia, 1994–1998 and 1999	44
FIGURE 13	Maternal Complications of Pregnancy and Delivery in Live Births by Local Health Area, British Columbia, 1994–1998 (map)	45
TABLE 19	Perinatal Complications in Live Births by Age of Mother, British Columbia, 1994–1998 and 1999	47
TABLE 20	Perinatal Complications in Live Births by Local Health Area, British Columbia, 1994–1998 and 1999	48
FIGURE 14	Perinatal Complications in Live Births by Local Health Area, British Columbia, 1994–1998 (map)	49

IV. DEATH-RELATED STATISTICS

SUMMARY		53
TABLE 21	Causes of Death by Gender and Age, British Columbia, 1999	54
TABLE 22	Twelve Leading Causes of Death, British Columbia, 1994–1998 and 1999	56
FIGURE 15	Twelve Leading Causes of Death, British Columbia, 1999	57
TABLE 23	Leading Causes of Death by Age, British Columbia, 1999	58
TABLE 24	Infant Mortality by Age of Mother and Birth Weight, British Columbia, 1999	62
TABLE 25	Infant Mortality by Gestational Age and Birth Weight, British Columbia, 1999	63
TABLE 26	Infant Mortality by Local Health Area, British Columbia, 1994–1998 and 1999	64
FIGURE 16	Infant Mortality by Local Health Area, British Columbia, 1994–1998 (map)	65
TABLE 27	Selected Causes of Infant Deaths and Stillbirths, British Columbia, 1999	68
TABLE 28	Deaths Due to AIDS and HIV Infection by Gender and Age Group, British Columbia, 1987–1999	70
FIGURE 17	Deaths Due to AIDS and HIV Infection by Age Group, British Columbia, 1995–1999	71
TABLE 29	Deaths Due to AIDS and HIV Infection by Health Region, British Columbia, 1987–1999	72
TABLE 30	Deaths from Accidents and Violence by Gender, British Columbia, 1999	74
TABLE 31	Deaths from Accidents and Violence by Local Health Area, British Columbia, 1999	76
TABLE 32	Suicide Deaths by Month and Gender, British Columbia, 1999	79
TABLE 33	Standardized Mortality Ratio by Local Health Area, All Causes of Death, British Columbia, 1994–1998 and 1999	80
FIGURE 18	Standardized Mortality Ratio by Local Health Area, All Causes of Death, British Columbia, 1994–1998 (map)	81
TABLE 34	Potential Years of Life Lost and Age Standardized Mortality Rates by Selected Causes of Death, British Columbia, 1999	83
FIGURE 19	Potential Years of Life Lost and Age Standardized Mortality Rates by Selected Causes of Death, British Columbia, 1999	84
TABLE 35	Potential Years of Life Lost by Age Group and Major Causes of Death (Age Under 75 Years), British Columbia, 1999	85
FIGURE 20	Potential Years of Life Lost Standardized Rates by Age Group and Gender, Major Causes of Death (Age Under 75 Years), British Columbia, 1999	86
TABLE 36	Potential Years of Life Lost by Local Health Area, External Causes of Death (Age Under 75 Years), British Columbia, 1994–1998 and 1999	88
FIGURE 21	Potential Years of Life Lost by Local Health Area, External Causes of Death (Age Under 75 Years), British Columbia, 1994–1998 (map)	89
TABLE 37	Deaths Due to Medically Treatable Diseases by Selected Causes and Gender, British Columbia, 1994–1998 and 1999	91

TABLE 38	Standardized Mortality Ratio by Local Health Area, Deaths Due to Selected Medically Treatable Diseases, British Columbia, 1994–1998 and 1999	92
FIGURE 22	Standardized Mortality Ratio by Local Health Area, Deaths Due to Selected Medically Treatable Diseases, British Columbia, 1994–1998 (map)	93
TABLE 39	Alcohol-related Deaths by Cause, British Columbia, 1994–1998 and 1999	95
FIGURE 23	Alcohol-related Deaths by Cause, British Columbia, 1999	96
TABLE 40	Alcohol-related Deaths by Age and Gender, British Columbia, 1999	97
TABLE 41	Standardized Mortality Ratio by Local Health Area, Alcohol-related Deaths, British Columbia, 1994–1998 and 1999	98
FIGURE 24	Standardized Mortality Ratio by Local Health Area, Alcohol-related Deaths, British Columbia, 1994–1998 (map)	99
TABLE 42	Smoking-attributable Mortality, British Columbia, 1999	101
FIGURE 25	Smoking-attributable Mortality by Selected Causes and Gender, British Columbia, 1999	102
TABLE 43	Drug-induced Deaths by Age and Gender, British Columbia, 1999	103
TABLE 44	Drug-induced Deaths by Cause, British Columbia, 1994–1998 and 1999	104
FIGURE 26	Drug-induced Deaths by Cause, British Columbia, 1999	104
TABLE 45	Standardized Mortality Ratio by Local Health Area, Drug-induced Deaths, British Columbia, 1994–1998 and 1999	106
FIGURE 27	Standardized Mortality Ratio by Local Health Area, Drug-induced Deaths, British Columbia, 1994–1998 (map)	107
TABLE 46	Method of Disposition of Decedent, British Columbia, 1985–1999	110

V. MARRIAGE-RELATED STATISTICS

SUMMARY		113
TABLE 47	Marriages by Marital Status of Bride and Groom, British Columbia, 1999	114
TABLE 48	Marriages by Age of Bride and Groom, British Columbia, 1999	115
TABLE 49	Religious Representatives on Register and Marriages Performed by Religious Denomination, British Columbia, 1999	116
TABLE 50	Marriage Commissioners on Register by Type and Marriages Performed, British Columbia, 1999	116

VI. INFORMATION BOXES

On a Typical Day in British Columbia in 1999	8
Most Chosen First Names for Babies in 1999	23
Teen Pregnancy, 1993/1994–1998/1999	24
Births to Non-resident Mothers, British Columbia, 1999	27
The Health Status Registry, 1989–1998	35
Leading Causes of Death by Gender, British Columbia, 1999	60
Deaths Due to Cancers (Malignant Neoplasms) by Gender, British Columbia, 1999	61
Deaths Due to Circulatory System Diseases by Gender, British Columbia, 1999	61
Trends in Infant Mortality in the Status Indian Population, 1991–1998	66
Perinatal Mortality, 1965–1999	67
Trends in Child Mortality (under 19 Years of Age) in British Columbia, 1986–1999	73
Mortality Statistics for Elderly Seniors, 90 Years of Age or Older, 1995–1999	78, 79
Births by Mother's Country of Birth and Deaths by Decedent's Country of Birth, 1999	105
Method of Disposition by Decedent's Local Health Area of Residence, 1999	109

GLOSSARY

TERMS, METHODS, AND COMPUTATIONAL EXAMPLES *119*

REFERENCES

LIST OF REPORTS AND PUBLICATIONS, 1999 AND 2000 TO DATE *137*

Internet Sources of Vital Statistics Information *137*

APPENDIX 1: STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY, BRITISH COLUMBIA, 1999 ..... *139*

APPENDIX 2: DETAILED CAUSE OF DEATH BY GENDER AND AGE *157*

APPENDIX 3: SELECTED HEALTH STATUS INDICATORS BY HEALTH REGION AND LOCAL HEALTH AREA, BRITISH COLUMBIA, 1995–1999 ..... *169*

TABLE A Summary Statistics by Local Health Area, British Columbia, 1995–1999 ..... *171*

TABLE B Mortality in British Columbia by Local Health Area, British Columbia, 1995–1999 ..... *171*

TABLE C Summary Statistics by Health Region, British Columbia, 1995–1999 ..... *172*

TABLE D Mortality in British Columbia by Health Region, British Columbia, 1995–1999 ..... *172*

APPENDIX 4: HEALTH STATUS INDICATOR ELECTRONIC DATA ORDER FORM *173*

Birth Data, Single Year – Record Layout *174*

Death Data, Single Year – Record Layout *174*

Summary Statistics, Health Status Indicator Electronic Data Order Form *175*

INDEX OF KEYWORDS ..... *inside back cover*

Introduction

Introduction

The Vital Statistics Agency is responsible for the ascertainment, registration, and certification of vital events through the administration of the *Vital Statistics Act*, *Marriage Act*, and *Name Act*. In addition, the Agency administers the Wills Registry under part II of the *Wills Act*.

Statistical information contained in this report is summary data provided by the Agency for use by government agencies, health planners, researchers, and the general public. In order to maintain confidentiality, the information does not disclose personally identifiable data.

VITAL EVENT DATA

Live birth, stillbirth, and death statistics in this report summarize events that occurred in the province for British Columbia residents only, and exclude events to non-residents except where specifically noted. Statistics do not include events for British Columbia residents that occurred outside the province; Statistics Canada, in its publications, makes adjustments for events that occur to Canadians outside their province of usual residence. Marriage statistics summarize all events that occurred in the province to either residents or non-residents.

Data presented in this report are based on registrations of birth, stillbirth, death, and marriage as reported to the British Columbia Vital Statistics Agency. Registration requirements for each type of event are outlined briefly as follows:

Live Births: The *Vital Statistics Act* prescribes the legal requirements for the registration of live births. The parent(s) of the child have the responsibility to complete the Registration of Live Birth lives within 30 days of the event. The physician or registered midwife who was in attendance at the birth must complete a Notice of Live Birth. Other requirements must be met if the birth was not attended by a physician or registered midwife.

Stillbirths: In the event of a stillbirth, the parent(s) must complete the Registration of Stillbirth. The physician or registered midwife who was in attendance at the birth must complete a Notice of Stillbirth. In addition, a physician or coroner is required to complete the Medical Certification of Stillbirth portion of the Registration of Stillbirth and deliver it to the funeral director who in turn submits it to the Agency.

Deaths: The physician in attendance at the last illness of the deceased person, or the coroner conducting an inquiry into the death of the person is required to complete a Medical Certification of Death. In addition, the Registration of Death is completed by the informant with assistance from the funeral home. Funeral Directors obtain the Medical Certification of Death, issue the burial permit and submit the Medical Certification of Death and the Registration of Death documents to the Agency to complete the registration.

Marriages: The *Marriage Act* prescribes the legal qualifications of individuals to marry, the authorization of Religious Representatives and Marriage Commissioners to perform the marriage ceremony, and the solemnization of marriage. Under the *Marriage Act*, the Agency licences Religious Representatives of established religious denominations who desire the authority to solemnize marriage. The Agency recommends for appointment Marriage Commissioners to perform civil ceremonies and Marriage Licence Issuers.

Couples who meet the legal qualifications to marry must obtain a marriage licence up to 90 days before the ceremony. They can choose a civil ceremony performed by a Marriage Commissioner or a religious ceremony performed by a Religious Representative. The Registration of Marriage is completed by the officient after the ceremony, and must be signed by the officient, the bride and groom, and two witnesses.

TIME PERIODS

This report pertains to events that occurred in the calendar year 1999. Selected tables present aggregate information for the five-year period, 1994–1998. A summary of the latest five-year period, 1995–1999, appears in Appendix 3. These broader time periods permit more meaningful tests of statistical significance when analyzing data at sub-provincial levels, and can smooth out random fluctuations that occur when annual numbers are small. For regional health status profiles, readers are encouraged to refer to measures of statistical significance shown throughout the report, and use data presented for the five-year aggregates.

It should be noted that data for earlier years have been updated and may differ from earlier publications.

POPULATION DATA

The population estimates used in the production of this report are from PEOPLE 24 for local health areas and health regions, and *Total Population Estimates Municipalities and Regional Districts* for incorporated municipalities. These mid-year (July 1) population estimates were released by BC STATS, Ministry of Finance, in the fourth quarter of 1999.

In the mortality section of this report, a 'standard population' is used in the calculation of Age Standardized Mortality Rates (ASMR) and Potential Years of Life Lost Standardized Rates (PYLLSR). Since the 1998 Annual Report, the Agency has used the 1991 Canadian Census population as the 'standard population' in the calculation of these age-standardized measures. Please refer to Standard Population in the Glossary for a more detailed description.

SPATIAL ANALYSIS AND MAPPING

This report presents regional data for health regions (HR) and local health areas (LHA). The boundaries of these data dissemination areas of the Ministry of Health correspond to, or aggregate to, the boundaries of the regional health authorities.

Vital events are allocated to these data dissemination areas by the postal codes recorded on registration documents. Live births, stillbirths, and deaths are assigned by the usual residence of the parents (for live births and stillbirths) or the decedent (for deaths). Marriages are assigned geographically by the postal code of the location where the marriage ceremony was performed.

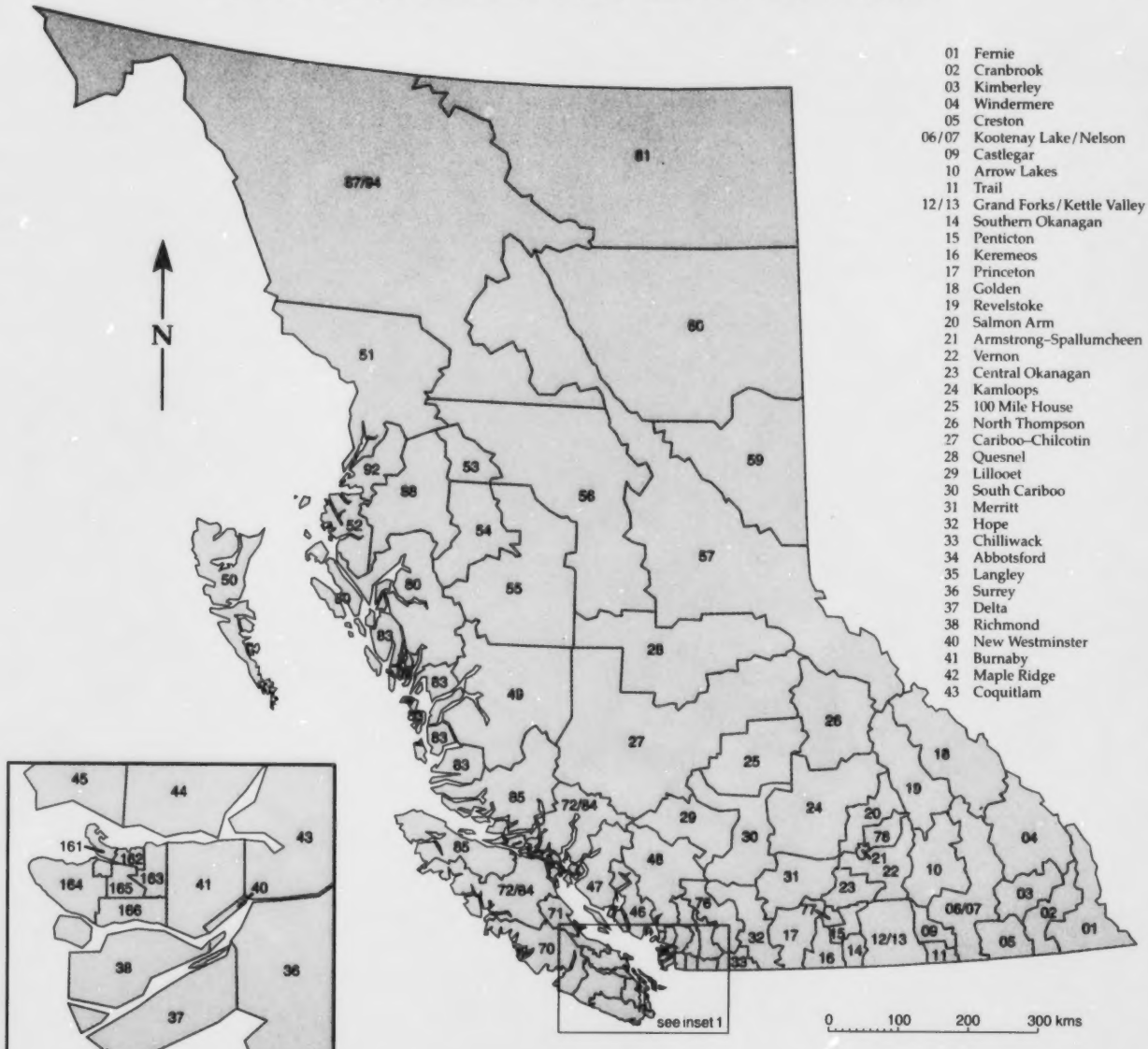
The maps in this report present LHA data ranked by quintiles. The maps allow for easy visual examination of spatial patterns. Although all LHAs are presented in the maps, emphasis should be placed on data which are statistically significant.

TERMS, METHODS, AND COMPUTATIONAL EXAMPLES

Readers are encouraged to refer to the glossary for explanations of terms and methodologies. In addition, the glossary provides examples of computations of measures and statistical tests.

FIGURE 1

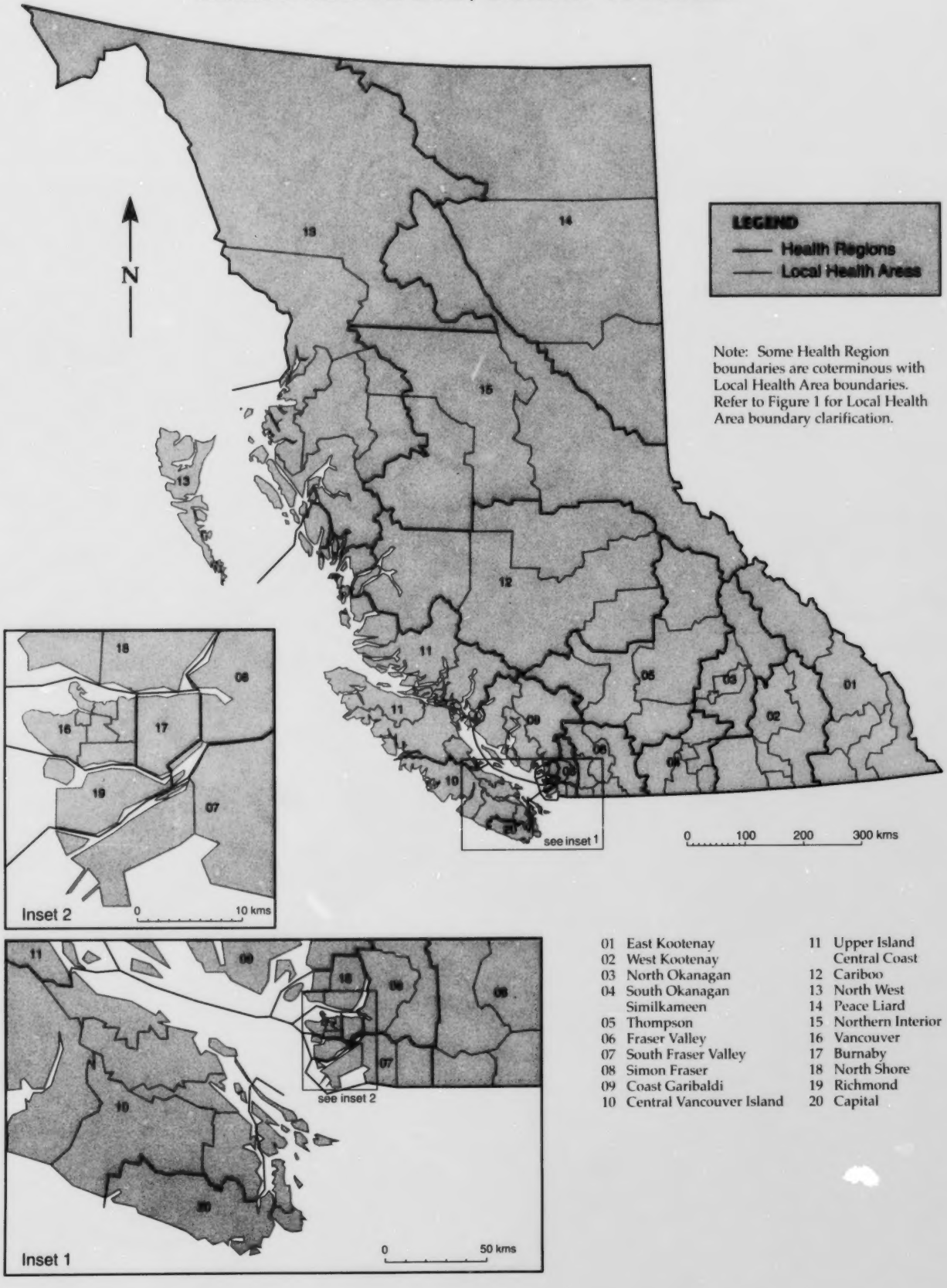
LOCAL HEALTH AREA MAP, BRITISH COLUMBIA



01 Fernie
02 Cranbrook
03 Kimberley
04 Windermere
05 Creston
06/07 Kootenay Lake/Nelson
09 Castlegar
10 Arrow Lakes
11 Trail
12/13 Grand Forks/Kettle Valley
14 Southern Okanagan
15 Penticton
16 Keremeos
17 Princeton
18 Golden
19 Revelstoke
20 Salmon Arm
21 Armstrong–Spallumcheen
22 Vernon
23 Central Okanagan
24 Kamloops
25 100 Mile House
26 North Thompson
27 Cariboo–Chilcotin
28 Quesnel
29 Lillooet
30 South Cariboo
31 Merritt
32 Hope
33 Chilliwack
34 Abbotsford
35 Langley
36 Surrey
37 Delta
38 Richmond
40 New Westminster
41 Burnaby
42 Maple Ridge
43 Coquitlam

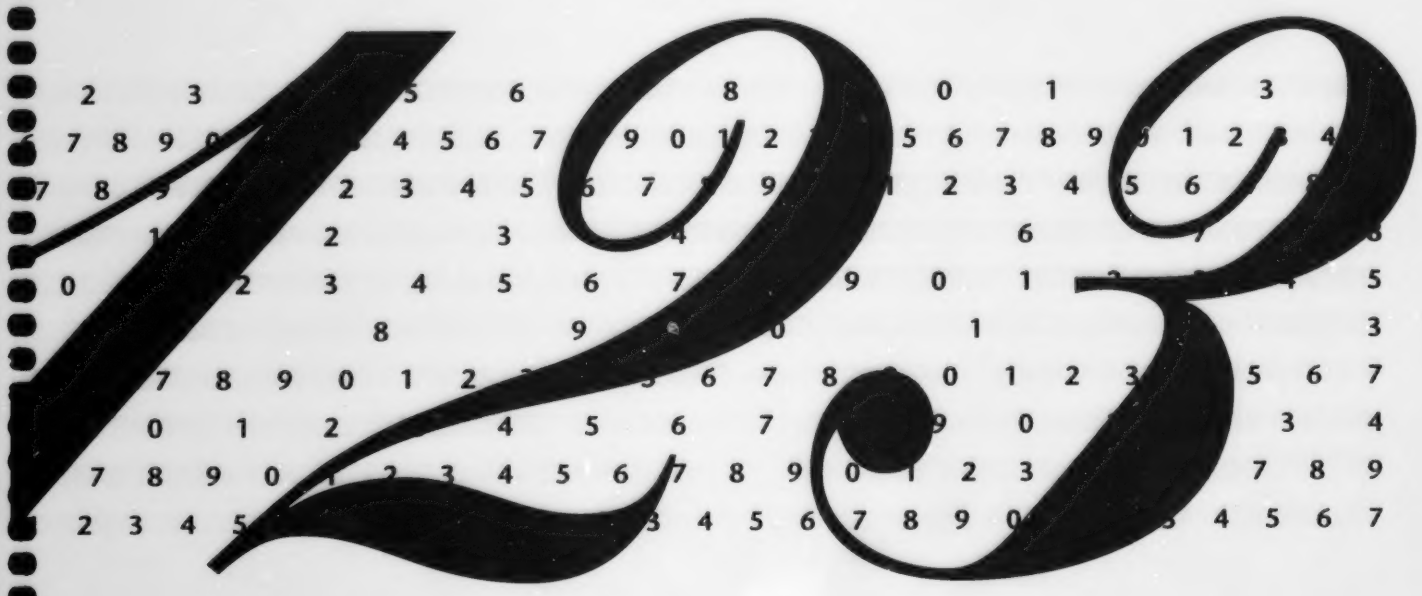
44 North Vancouver
45 West Vancouver
46 Sunshine Coast
47 Powell River
48 Howe Sound
49 Bella Coola Valley
50 Queen Charlotte
51 Snow Country
52 Prince Rupert
53 Upper Skeena
54 Smithers
55 Burns Lake (incl. Eutsuk)
56 Nechako
57 Prince George
59 Peace River South
60 Peace River North
61 Greater Victoria
62 Sooke
63 Saanich
64 Gulf Islands
65 Cowichan
66 Lake Cowichan
67 Ladysmith
68 Nanaimo
69 Qualicum
70 Alberni
71 Courtenay
72/84 Campbell River/ Vancouver Isl. West
75 Mission
76 Agassiz–Harrison
77 Summerland
78 Enderby
80 Kitimat
81 Fort Nelson
83 Central Coast
85 Vancouver Island North
87/94 Stikine/Telegraph Creek
88 Terrace
92 Nisga'a
161 Vancouver City Centre
162 Vancouver Downtown East Side
163 Vancouver North East
164 Vancouver West Side
165 Vancouver Midtown
166 Vancouver South

FIGURE 2
HEALTH REGION MAP, BRITISH COLUMBIA



01 East Kootenay
02 West Kootenay
03 North Okanagan
04 South Okanagan Similkameen
05 Thompson
06 Fraser Valley
07 South Fraser Valley
08 Simon Fraser
09 Coast Garibaldi
10 Central Vancouver Island
11 Upper Island Central Coast
12 Cariboo
13 North West
14 Peace Liard
15 Northern Interior
16 Vancouver
17 Burnaby
18 North Shore
19 Richmond
20 Capital

Vital Events - related Statistics



VITAL STATISTICS INFORMATION BOX

ON A TYPICAL DAY IN BRITISH COLUMBIA IN 1999

114 LIVE BIRTHS OCCURRED IN THE PROVINCE TO B.C. RESIDENTS:

- 59 males and 55 females were born
- 55 live births involved maternal complications
- 37 babies had perinatal complications
- 25 were cesarean deliveries
- 7 were pre-term
- 5 were low birth weight babies
- 5 were born to teenage mothers
- 20 were born to mothers 35+ years old
- 3 were multiple births
- 8 stillbirths every 10 days

76 DEATHS OCCURRED IN THE PROVINCE TO B.C. RESIDENTS:

- 40 males and 36 females died
- 27 deaths were due to diseases of the circulatory system including:
  - 19 deaths from heart diseases
  - 6 deaths from cerebrovascular diseases
- 21 deaths were due to cancer including:
  - 5 lung cancer
  - 2 colorectal cancer
  - 2 breast cancer
  - 1 prostate cancer
- 16 deaths were attributable to tobacco smoking
- 9 deaths were due to diseases of the respiratory system including:
  - 4 deaths from pneumonia/influenza
  - 3 deaths from chronic lung disease
- 5 deaths resulted from accidents and violence including:
  - 1 suicide
  - 1 motor vehicle traffic accident fatality
  - 1 homicide every 10 days
- 5 deaths were alcohol-related, 1 directly and 4 indirectly due to alcohol
- 1 death was drug-induced
- 2 deaths were due to diabetes
- 2 deaths were due to Alzheimer's disease and senile dementias
- 3 deaths every 10 days were from AIDS/HIV infections
- 4 infant deaths every 10 days

59 MARRIAGES WERE SOLEMNIZED IN B.C.:

- 33 were civil ceremonies and 26 were performed by religious representatives
- 36 marriages were to couples where both parties were marrying for the first time
- 3 marriages every 10 days were to couples where both parties were teenagers

Summary

The sources of data for the British Columbia Vital Statistics Agency originate with the registrations of birth, death, and marriage. These are based on information provided to the Agency by parents, physicians, midwives, coroners, funeral directors, religious representatives, and marriage commissioners. This information is used by the Agency to register vital events, to issue certificates of birth, death and marriage, and to produce statistical reports. This information is of particular interest to health-care planners, managers, and service providers; it assists in the analysis of trends and the development of service plans for the future.

In the last half of the twentieth century, as the population of British Columbia tripled, demographic and social changes had significant impacts on vital events. Provincial rates for marriages, fertility, and births fell to about half the rates seen in 1950, while mortality rates declined by nearly a third. The most striking change was a dramatic decline in infant mortality.

- There were 41,739 live births to B.C. residents in the province in 1999. This represented a decrease of 2.6% from 42,856 live births in 1998. The 1999 live birth rate of 10.4 per 1,000 population was the lowest since 1950, and was less than half of the rates seen five decades ago.
- Based on provincial Total Fertility Rates (TFR), the average woman in 1999 would have 1.4 live births in her lifetime, the lowest fertility rate in recent years. This is a significant decrease from the peak in 1959, when the average woman would have had 4.0 live births in her child bearing years.
- In 1999, there were 156 infant deaths (age at death less than one year) in the province for an infant mortality rate of 3.7 per 1,000 live births, a record low rate for British Columbia. This was a decrease from 174 infant deaths in 1998. Infant mortality rates in B.C. have fallen dramatically to approximately one fifth of the rates seen thirty years ago.
- There were 294 stillbirths to B.C. residents in 1999, an increase from 278 in 1998. The stillbirth rate was 7.0 per 1,000 total births (live births and stillbirths) in 1999. The stillbirth rates have fluctuated widely between 6.2 and 7.5 in the last decade.
- There were 27,794 deaths in British Columbia in 1999, 11 deaths less than the previous year. There were 6.9 deaths per 1,000 population, unchanged since 1997. The death rate has decreased each decade from the 1950s to the 1990s, and has been consistently under 7.3 per 1,000 population since 1985.
- In 1999, the 41,739 live births and 27,794 deaths in B.C. produced a rate of natural population increase of 3.5 per 1,000 population. The natural population increase rate in 1999 was the lowest rate since 1950.
- The 1995–1999 average life expectancy at birth in B.C. was 79.2 years for both genders combined; 76.5 for males and 82.0 for females (Appendix 1).
- There were 21,616 marriages solemnized in the province in 1999. The 1999 marriage rate, 5.4 marriages per 1,000 population, was the same as 1998 and the lowest rate since 1950. In recent decades, there has been a trend towards delaying first marriages. The 1999 average age of first marriage brides was 27.7 years old, while first-marriage grooms were, on average, 29.8 years old. The average age of brides and grooms for first and later marriages combined also increased steadily in the past two decades.

M121

IMPORTANT NOTE CONCERNING THE FOLLOWING PAGES

THE PAGES WHICH FOLLOW HAVE BEEN FILMED TWICE IN ORDER TO OBTAIN THE BEST REPRODUCTIVE QUALITY

USERS SHOULD CONSULT ALL THE PAGES REPRODUCED ON THE FICHE IN ORDER TO OBTAIN A COMPLETE READING OF THE TEXT.

REMARQUE IMPORTANTE CONCERNANT LES PAGES QUI SUIVENT

LES PAGES SUIVANTES ONT ÉTÉ REPRODUITES EN DOUBLE AFIN D'AMÉLIORER LA QUALITÉ DE REPRODUCTION

LES UTILISATEURS DOIVENT CONSULTER TOUTES LES PAGES REPRODUITES SUR LA FICHE AFIN D'OBTENIR LA LECTURE DU TEXTE INTÉGRAL

micromedia
a division of IHS Canada

20 Victoria Street
Toronto, Ontario M5C 2N8
Tel.: (416) 362-5211
Toll Free: 1-800-387-2689
Fax: (416) 362-6161
Email: info@micromedia.on.ca

TABLE 1
LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS
BRITISH COLUMBIA, 1950–1999

Year	Mid-year Population	Live Births		Deaths		Marriages		Stillbirths	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate
1950	1,137,000	27,116	23.8	11,581	10.2	11,110	9.8	369	13.4
1951	1,165,210	28,077	24.1	11,638	10.0	11,272	9.7	365	12.8
1952	1,205,000	29,827	24.8	12,080	10.0	11,081	9.2	375	12.4
1953	1,248,000	31,746	25.4	12,218	9.8	11,298	9.1	375	11.7
1954	1,295,000	32,946	25.4	12,414	9.6	10,991	8.5	373	11.2
1955	1,342,000	34,138	25.4	12,816	9.5	11,011	8.2	381	11.0
1956	1,398,464	36,241	25.9	13,415	9.6	11,950	8.5	413	11.3
1957	1,482,000	38,744	26.1	13,711	9.3	12,620	8.5	422	10.8
1958	1,538,000	39,577	25.7	13,741	8.9	12,094	7.9	414	10.4
1959	1,567,000	39,971	25.5	14,336	9.1	11,910	7.6	404	10.0
1960	1,602,000	40,116	25.0	14,696	9.2	11,203	7.0	437	10.8
1961	1,629,100	38,591	23.7	14,403	8.8	10,935	6.7	410	10.5
1962	1,660,000	38,128	23.0	14,912	9.0	11,196	6.7	377	9.8
1963	1,699,000	37,478	22.1	15,029	8.8	11,677	6.9	476	12.5
1964	1,745,000	35,897	20.6	16,051	9.2	12,158	7.0	485	13.3
1965	1,797,000	33,669	18.7	15,784	8.8	13,639	7.6	447	13.1
1966	1,873,674	32,502	17.3	16,290	8.7	14,682	7.8	409	12.4
1967	1,945,000	32,899	16.9	16,170	8.3	16,026	8.2	422	12.7
1968	2,003,000	33,687	16.8	16,828	8.4	16,914	8.4	433	12.7
1969	2,060,000	35,383	17.2	17,377	8.4	18,284	8.9	468	13.1
1970	2,128,000	36,861	17.3	17,020	8.0	20,020	9.4	407	10.9
1971	2,184,620	34,852	16.0	17,783	8.1	20,389	9.3	442	12.5
1972	2,241,400	34,563	15.4	18,021	8.0	20,659	9.2	356	10.2
1973	2,302,400	34,352	14.9	18,095	7.9	21,303	9.3	339	9.8
1974	2,375,700	35,450	14.9	19,177	8.1	21,734	9.1	364	10.2
1975	2,433,200	36,281	14.9	19,151	7.9	21,824	9.0	414	11.3
1976	2,466,610	35,848	14.5	18,788	7.6	21,536	8.7	361	10.0
1977	2,493,800	36,691	14.7	18,021	7.2	21,156	8.5	330	8.9
1978	2,530,100	37,231	14.7	19,057	7.5	21,388	8.5	331	8.8
1979	2,571,200	38,432	14.9	19,204	7.5	22,087	8.6	313	8.1
1980	2,640,100	40,104	15.2	19,371	7.3	23,830	9.0	316	7.8
1981	2,744,470	41,679	15.2	19,857	7.2	24,694	9.0	371	8.8
1982	2,787,700	42,942	15.4	20,704	7.4	23,831	8.5	317	7.3
1983	2,813,800	43,047	15.3	19,895	7.1	23,692	8.4	310	7.1
1984	2,847,700	44,040	15.5	20,781	7.3	23,394	8.2	303	6.8
1985	2,990,000	42,989	14.4	21,131	7.1	22,270	7.4	333	7.7
1986	3,020,400	41,845	13.9	21,006	7.0	21,819	7.2	309	7.3
1987	3,064,600	41,655	13.6	21,619	7.1	23,377	7.6	297	7.1
1988	3,128,200	42,913	13.7	22,361	7.1	24,469	7.8	292	6.8
1989	3,209,200	43,585	13.6	22,780	7.1	25,154	7.8	319	7.3
1990	3,300,100	45,333	13.7	23,398	7.1	25,185	7.6	292	6.4
1991	3,379,800	45,308	13.4	23,794	7.0	23,648	7.0	306	6.7
1992	3,476,868	46,048	13.2	24,445	7.0	23,756	6.8	301	6.5
1993	3,571,524	45,931	12.9	25,601	7.2	23,473	6.6	286	6.2
1994	3,681,750	46,850	12.7	25,824	7.0	23,763	6.5	312	6.6
1995	3,784,008	46,707	12.3	26,219	6.9	23,624	6.2	350	7.4
1996	3,882,043	45,954	11.8	27,389	7.1	22,879	5.9	292	6.3
1997	3,961,400	44,391	11.2	27,259	6.9	21,876	5.5	335	7.5
1998	4,002,777	42,856	10.7	27,805	6.9	21,764	5.4	278	6.4
1999	4,029,253	41,739	10.4	27,794	6.9	21,616	5.4	294	7.0

Note: Rates shown for births, deaths and marriages are crude rates per 1,000 population.
Stillbirth rate is per 1,000 total births (live births plus stillbirths).
The definition of a stillbirth was revised in 1963 and 1986 (see glossary).
Population information from PEOPLE 24 Estimates (BCSTATS).
Above information includes late registrations and amendments.
Gender unknown included. Non-residents are excluded from all data except marriages.

TABLE 1
LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS
BRITISH COLUMBIA, 1950–1999

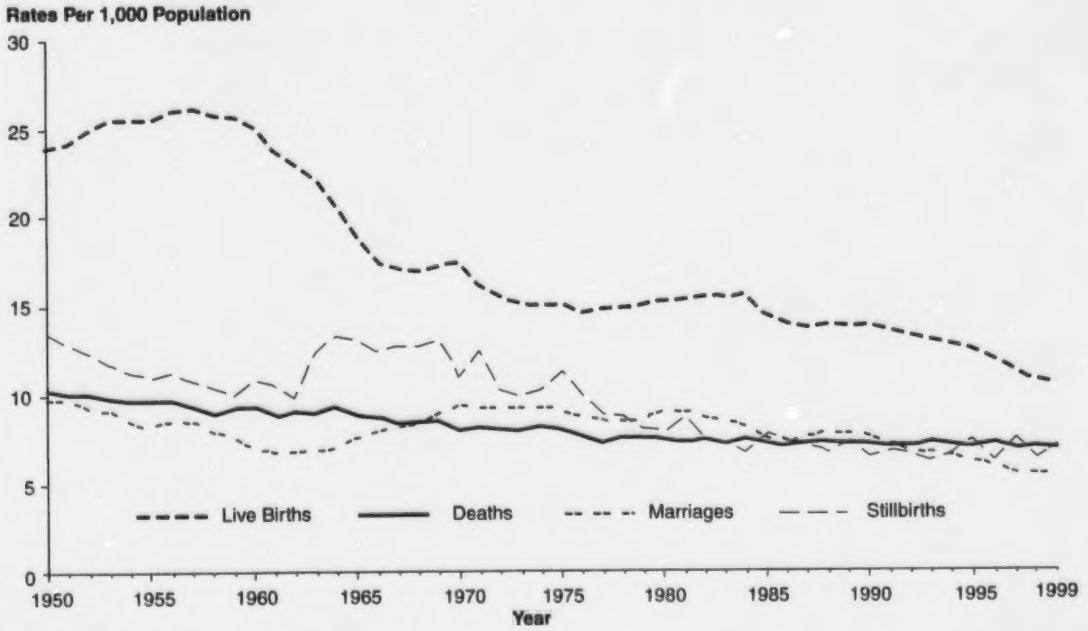
Year	Mid-year Population	Live Births		Deaths		Marriages		Stillbirths	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate
1950	1,137,000	27,116	23.8	11,581	10.2	11,110	9.8	369	13.4
1951	1,165,210	28,077	24.1	11,638	10.0	11,272	9.7	365	12.8
1952	1,205,000	29,827	24.8	12,080	10.0	11,081	9.2	375	12.4
1953	1,248,000	31,746	25.4	12,218	9.8	11,298	9.1	375	11.7
1954	1,295,000	32,946	25.4	12,414	9.6	10,991	8.5	373	11.2
1955	1,342,000	34,138	25.4	12,816	9.5	11,011	8.2	381	11.0
1956	1,398,464	36,241	25.9	13,415	9.6	11,950	8.5	413	11.3
1957	1,482,000	38,744	26.1	13,711	9.3	12,620	8.5	422	10.8
1958	1,538,000	39,577	25.7	13,741	8.9	12,094	7.9	414	10.4
1959	1,567,000	39,971	25.5	14,336	9.1	11,910	7.6	404	10.0
1960	1,602,000	40,116	25.0	14,696	9.2	11,203	7.0	437	10.8
1961	1,629,100	38,591	23.7	14,403	8.8	10,935	6.7	410	10.5
1962	1,660,000	38,128	23.0	14,912	9.0	11,196	6.7	377	9.8
1963	1,699,000	37,478	22.1	15,029	8.8	11,677	6.9	476	12.5
1964	1,745,000	35,897	20.6	16,051	9.2	12,158	7.0	485	13.3
1965	1,797,000	33,669	18.7	15,784	8.8	13,639	7.6	447	13.1
1966	1,873,674	32,502	17.3	16,290	8.7	14,682	7.8	409	12.4
1967	1,945,000	32,899	16.9	16,170	8.3	16,026	8.2	422	12.7
1968	2,003,000	33,687	16.8	16,828	8.4	16,914	8.4	433	12.7
1969	2,060,000	35,383	17.2	17,377	8.4	18,284	8.9	468	13.1
1970	2,128,000	36,861	17.3	17,020	8.0	20,020	9.4	407	10.9
1971	2,184,620	34,852	16.0	17,783	8.1	20,389	9.3	442	12.5
1972	2,241,400	34,563	15.4	18,021	8.0	20,659	9.2	356	10.2
1973	2,302,400	34,352	14.9	18,095	7.9	21,303	9.3	339	9.8
1974	2,375,700	35,450	14.9	19,177	8.1	21,734	9.1	364	10.2
1975	2,433,200	36,281	14.9	19,151	7.9	21,824	9.0	414	11.3
1976	2,466,610	35,848	14.5	18,788	7.6	21,536	8.7	361	10.0
1977	2,493,800	36,691	14.7	18,021	7.2	21,156	8.5	330	8.9
1978	2,530,100	37,231	14.7	19,057	7.5	21,388	8.5	331	8.8
1979	2,571,200	38,432	14.9	19,204	7.5	22,087	8.6	313	8.1
1980	2,640,100	40,104	15.2	19,371	7.3	23,830	9.0	316	7.8
1981	2,744,470	41,679	15.2	19,857	7.2	24,694	9.0	371	8.8
1982	2,787,700	42,942	15.4	20,704	7.4	23,831	8.5	317	7.3
1983	2,813,800	43,047	15.3	19,895	7.1	23,692	8.4	310	7.1
1984	2,847,700	44,040	15.5	20,781	7.3	23,394	8.2	303	6.8
1985	2,990,000	42,989	14.4	21,131	7.1	22,270	7.4	333	7.7
1986	3,020,400	41,845	13.9	21,006	7.0	21,819	7.2	309	7.3
1987	3,064,600	41,655	13.6	21,619	7.1	23,377	7.6	297	7.1
1988	3,128,200	42,913	13.7	22,361	7.1	24,469	7.8	292	6.8
1989	3,209,200	43,585	13.6	22,780	7.1	25,154	7.8	319	7.3
1990	3,300,100	45,333	13.7	23,398	7.1	25,185	7.6	292	6.4
1991	3,379,800	45,308	13.4	23,794	7.0	23,648	7.0	306	6.7
1992	3,476,868	46,048	13.2	24,445	7.0	23,756	6.8	301	6.5
1993	3,571,524	45,931	12.9	25,601	7.2	23,473	6.6	286	6.2
1994	3,681,750	46,850	12.7	25,824	7.0	23,763	6.5	312	6.6
1995	3,784,008	46,707	12.3	26,219	6.9	23,624	6.2	350	7.4
1996	3,882,043	45,954	11.8	27,389	7.1	22,879	5.9	292	6.3
1997	3,961,400	44,391	11.2	27,259	6.9	21,876	5.5	335	7.5
1998	4,002,777	42,856	10.7	27,805	6.9	21,764	5.4	278	6.4
1999	4,029,253	41,739	10.4	27,794	6.9	21,616	5.4	294	7.0

Note: Rates shown for births, deaths and marriages are crude rates per 1,000 population.
Stillbirth rate is per 1,000 total births (live births plus stillbirths).
The definition of a stillbirth was revised in 1963 and 1986 (see glossary).
Population information from PEOPLE 24 Estimates (BCSTATS).
Above information includes late registrations and amendments.
Gender unknown included. Non-residents are excluded from all data except marriages.

FIGURE 3

CRUDE RATES OF LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS

BRITISH COLUMBIA, 1950–1999



Note: Stillbirth rate per 1,000 total births.

HIGHLIGHTS TO TABLE 1/FIGURE 3

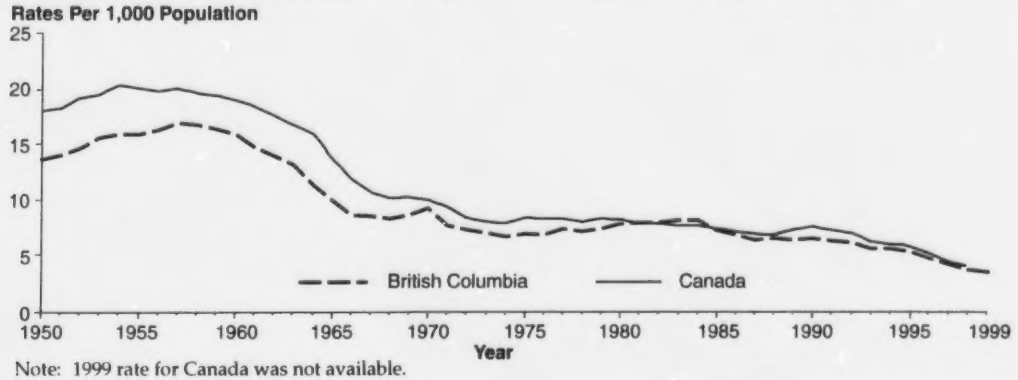
- British Columbia's 1999 vital events continued to follow recent trends. As a result of social and demographic changes since 1950, the population of the province has more than tripled, the live birth and stillbirth rates have decreased by 56.3% and 47.8% respectively, the marriage rate has declined by 44.9%, and there has been a 32.4% decrease in the death rate.
- In 1999, there were 41,739 live births in the province to B.C. residents, 21,540 males and 20,199 females. The number of live births decreased by 1,117 births from 42,856 in 1998. The crude birth rate, 10.4 live births per 1,000 population, was the lowest birth rate to date, and was less than half of the birth rate of the 1950s.
- In 1999, there were 27,794 deaths of British Columbia residents in the province, down slightly from the previous year (27,805). The 1999 crude death rate, 6.9 deaths per 1,000 population, was unchanged from the 1998 rate.
- There were 21,616 marriages were solemnized in the province in 1999. This represents a slight decrease from 21,764 marriages in 1998, and a 14.2% decline from the peak of 25,185 marriages in 1990. The crude marriage rate has shown a consistent downward trend in the last two decades, from 9.0 marriages per 1,000 population in 1980 to 5.4 in 1998 and 1999. This latest year was the fourth year in a row that there were fewer than 6.0 marriages per 1,000 population. Marriage statistics in this publication include all marriages that took place in the province, including those where one or both parties were non-B.C. residents.
- There were 294 stillbirths to B.C. residents in 1999, an increase from 278 in 1998. The crude stillbirth rate was 7.0 per 1,000 total births (live births and stillbirths) in 1999. The stillbirth rates have fluctuated widely between 6.2 and 7.5 in the last decade.

TABLE 2
TRENDS OF NATURAL POPULATION INCREASES
BRITISH COLUMBIA AND CANADA, 1950–1999

Year	Rate		Year	Rate	
	B.C.	Canada		B.C.	Canada
1950	13.7	18.0	1975	7.0	8.5
1951	14.1	18.2	1976	6.9	8.4
1952	14.7	19.2	1977	7.5	8.4
1953	15.6	19.5	1978	7.2	8.1
1954	15.9	20.3	1979	7.5	8.4
1955	15.9	20.0	1980	7.9	8.3
1956	16.3	19.8	1981	8.0	8.0
1957	16.9	20.0	1982	8.0	7.9
1958	16.8	19.6	1983	8.2	7.8
1959	16.4	19.4	1984	8.2	7.8
1960	15.9	19.0	1985	7.3	7.5
1961	14.8	18.4	1986	6.9	7.2
1962	14.0	17.6	1987	6.5	7.0
1963	13.2	16.8	1988	6.6	7.0
1964	11.4	15.9	1989	6.5	7.4
1965	10.0	13.7	1990	6.6	7.7
1966	8.7	11.9	1991	6.4	7.4
1967	8.6	10.8	1992	6.2	7.1
1968	8.4	10.2	1993	5.7	6.4
1969	8.7	10.3	1994	5.7	6.1
1970	9.3	10.1	1995	5.4	5.7
1971	7.8	9.5	1996	4.8	5.2
1972	7.4	8.5	1997	4.3	4.4
1973	7.1	8.1	1998	3.8	4.1
1974	6.8	8.0	1999	3.5	*

Note: Rates shown are rates of natural population increase per 1,000 population. Canadian rates from Statistics Canada. *1999 rate for Canada was not available.Non-residents are excluded.

FIGURE 4
TRENDS OF NATURAL POPULATION INCREASES
BRITISH COLUMBIA AND CANADA, 1950–1999



Note: 1999 rate for Canada was not available.

HIGHLIGHTS TO TABLE 2/FIGURE 4

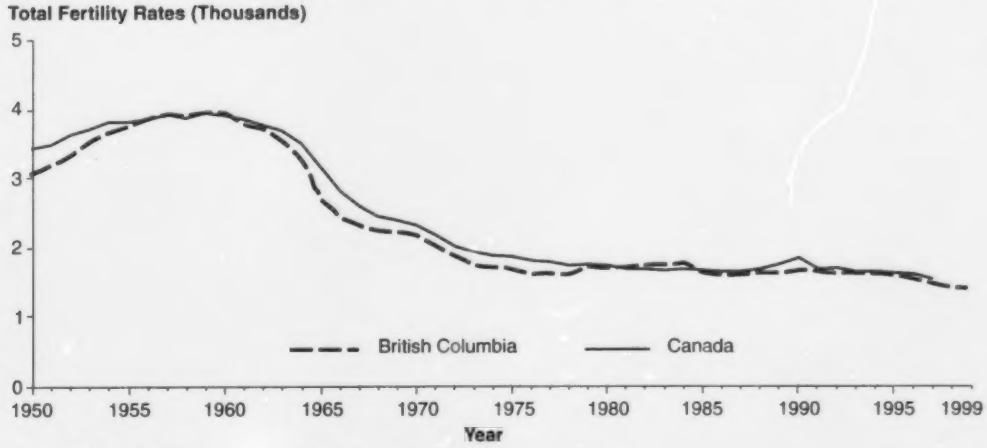
- In 1999, the 41,739 births and 27,794 deaths in the province produced a rate of natural population increase of 3.5 per 1,000 population. Immigration and emigration are not included in natural population increase rates.
- The pattern of rates of natural population increase over the last five decades follows trends set in the provincial crude birth rates. After high rates in the 1950s, natural population growth rates decreased rapidly in the 1960s as birth rates and death rates both declined. Since the mid 1980s, the small but steady decline in the natural population growth rate resulted from the declining birth rate and relatively stable death rates. The 1999 rate of natural population increase for B.C. was the lowest since 1950, and the second year in a row with a rate below 4.0 per 1,000 population. Except for four years from 1981 to 1984, the B.C. rate of natural population increase has been consistently below the Canadian rate each year.

TABLE 3
TRENDS OF TOTAL FERTILITY RATES
BRITISH COLUMBIA AND CANADA, 1950–1999

Year	Rate		Year	Rate	
	B.C.	Canada		B.C.	Canada
1950	3,074	3,438	1975	1,682	1,871
1951	3,201	3,487	1976	1,618	1,820
1952	3,327	3,631	1977	1,636	1,801
1953	3,542	3,712	1978	1,620	1,751
1954	3,656	3,822	1979	1,721	1,757
1955	3,748	3,823	1980	1,716	1,738
1956	3,875	3,853	1981	1,718	1,699
1957	3,921	3,923	1982	1,749	1,687
1958	3,900	3,881	1983	1,751	1,675
1959	3,958	3,941	1984	1,781	1,684
1960	3,949	3,904	1985	1,642	1,673
1961	3,785	3,852	1986	1,602	1,662
1962	3,709	3,769	1987	1,598	1,647
1963	3,564	3,683	1988	1,636	1,692
1964	3,284	3,515	1989	1,638	1,768
1965	2,710	3,157	1990	1,673	1,863
1966	2,442	2,821	1991	1,653	1,699
1967	2,307	2,601	1992	1,642	1,710
1968	2,228	2,459	1993	1,636	1,658
1969	2,223	2,409	1994	1,638	1,663
1970	2,185	2,336	1995	1,604	1,639
1971	1,994	2,188	1996	1,540	1,624
1972	1,890	2,025	1997	1,472	1,552
1973	1,751	1,939	1998	1,435	*
1974	1,735	1,887	1999	1,413	*

Note: Total Fertility Rate – Sum of age-specific fertility rates multiplied by the number of years in each age group (see glossary for definition). B.C. rates per 1,000 women age 15 to 44. Canadian rates, from Statistics Canada, are per 1,000 women age 15 to 49. *1998 and 1999 rates for Canada were not available. Non-residents are excluded.

FIGURE 5
TRENDS OF TOTAL FERTILITY RATES
BRITISH COLUMBIA AND CANADA, 1950–1999



Note: 1998 and 1999 rates for Canada were not available.

HIGHLIGHTS TO TABLE 3/FIGURE 5

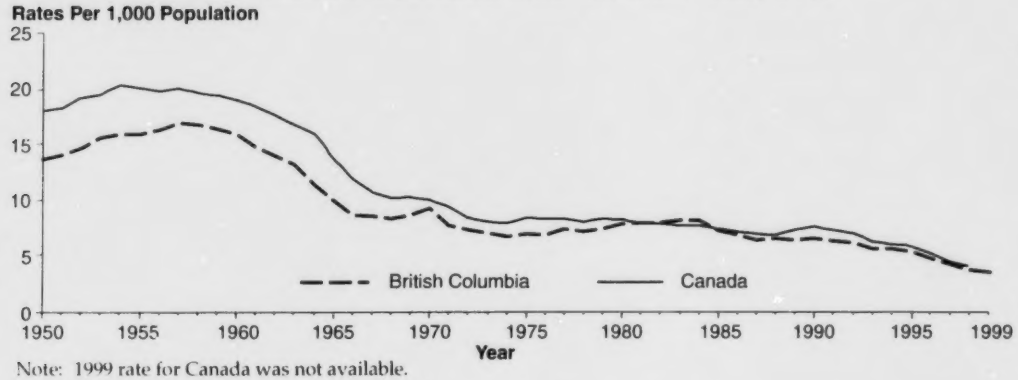
- In 1999, the Total Fertility Rate (TFR) for B.C. was 1,413 births per 1,000 women of child bearing age (15 to 44 years of age), based on the provincial 1999 age-specific rates.
- Based on these TFRs, the average woman in 1999 would have 1.4 live births in her lifetime, the lowest fertility rate in recent years. This is a significant decrease from the peak in 1959, when the average woman would have had 4.0 live births in her child bearing years.

TABLE 2
TRENDS OF NATURAL POPULATION INCREASES
BRITISH COLUMBIA AND CANADA, 1950–1999

Year	Rate B.C.	Rate Canada	Year	Rate B.C.	Rate Canada
1950	13.7	18.0	1975	7.0	8.5
1951	14.1	18.2	1976	6.9	8.4
1952	14.7	19.2	1977	7.5	8.4
1953	15.6	19.5	1978	7.2	8.1
1954	15.9	20.3	1979	7.5	8.4
1955	15.9	20.0	1980	7.9	8.3
1956	16.3	19.8	1981	8.0	8.0
1957	16.9	20.0	1982	8.0	7.9
1958	16.8	19.6	1983	8.2	7.8
1959	16.4	19.4	1984	8.2	7.8
1960	15.9	19.0	1985	7.3	7.5
1961	14.8	18.4	1986	6.9	7.2
1962	14.0	17.6	1987	6.5	7.0
1963	13.2	16.8	1988	6.6	7.0
1964	11.4	15.9	1989	6.5	7.4
1965	10.0	13.7	1990	6.6	7.7
1966	8.7	11.9	1991	6.4	7.4
1967	8.6	10.8	1992	6.2	7.1
1968	8.4	10.2	1993	5.7	6.4
1969	8.7	10.3	1994	5.7	6.1
1970	9.3	10.1	1995	5.4	5.7
1971	7.8	9.5	1996	4.8	5.2
1972	7.4	8.5	1997	4.3	4.4
1973	7.1	8.1	1998	3.8	4.1
1974	6.8	8.0	1999	3.5	*

Note: Rates shown are rates of natural population increase per 1,000 population. Canadian rates from Statistics Canada. *1999 rate for Canada was not available.Non-residents are excluded.

FIGURE 4
TRENDS OF NATURAL POPULATION INCREASES
BRITISH COLUMBIA AND CANADA, 1950–1999



Note: 1999 rate for Canada was not available.

HIGHLIGHTS TO TABLE 2/FIGURE 4

- In 1999, the 41,739 births and 27,794 deaths in the province produced a rate of natural population increase of 3.5 per 1,000 population. Immigration and emigration are not included in natural population increase rates.
- The pattern of rates of natural population increase over the last five decades follows trends set in the provincial crude birth rates. After high rates in the 1950s, natural population growth rates decreased rapidly in the 1960s as birth rates and death rates both declined. Since the mid 1980s, the small but steady decline in the natural population growth rate resulted from the declining birth rate and relatively stable death rates. The 1999 rate of natural population increase for B.C. was the lowest since 1950, and the second year in a row with a rate below 4.0 per 1,000 population. Except for four years from 1981 to 1984, the B.C. rate of natural population increase has been consistently below the Canadian rate each year.

TABLE 3

TRENDS OF TOTAL FERTILITY RATES

BRITISH COLUMBIA AND CANADA, 1950–1999

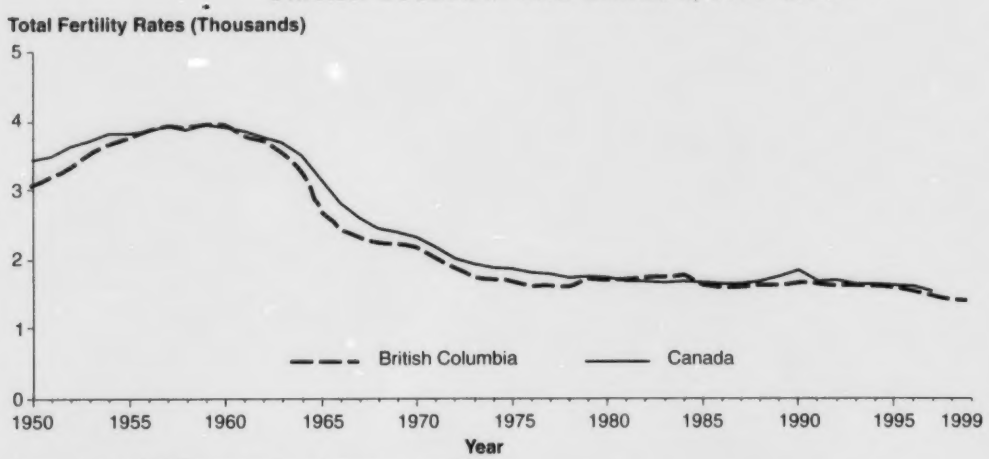
Year	Rate		Year	Rate	
	B.C.	Canada		B.C.	Canada
1950	3,074	3,438	1975	1,682	1,871
1951	3,201	3,487	1976	1,618	1,820
1952	3,327	3,631	1977	1,636	1,801
1953	3,542	3,712	1978	1,620	1,751
1954	3,656	3,822	1979	1,721	1,757
1955	3,748	3,823	1980	1,716	1,738
1956	3,875	3,853	1981	1,718	1,699
1957	3,921	3,923	1982	1,749	1,687
1958	3,900	3,881	1983	1,751	1,675
1959	3,958	3,941	1984	1,781	1,684
1960	3,949	3,904	1985	1,642	1,673
1961	3,785	3,852	1986	1,602	1,662
1962	3,709	3,769	1987	1,598	1,647
1963	3,564	3,683	1988	1,636	1,692
1964	3,284	3,515	1989	1,638	1,768
1965	2,710	3,157	1990	1,673	1,863
1966	2,442	2,821	1991	1,653	1,699
1967	2,307	2,601	1992	1,642	1,710
1968	2,228	2,459	1993	1,636	1,658
1969	2,223	2,409	1994	1,638	1,663
1970	2,185	2,336	1995	1,604	1,639
1971	1,994	2,188	1996	1,540	1,624
1972	1,890	2,025	1997	1,472	1,552
1973	1,751	1,939	1998	1,435	*
1974	1,735	1,887	1999	1,413	*

Note: Total Fertility Rate – Sum of age-specific fertility rates multiplied by the number of years in each age group (see glossary for definition). B.C. rates per 1,000 women age 15 to 44. Canadian rates, from Statistics Canada, are per 1,000 women age 15 to 49. *1998 and 1999 rates for Canada were not available. Non-residents are excluded.

FIGURE 5

TRENDS OF TOTAL FERTILITY RATES

BRITISH COLUMBIA AND CANADA, 1950–1999



Note: 1998 and 1999 rates for Canada were not available.

HIGHLIGHTS TO TABLE 3/FIGURE 5

- In 1999, the Total Fertility Rate (TFR) for B.C. was 1,413 births per 1,000 women of child bearing age (15 to 44 years of age), based on the provincial 1999 age-specific rates.
- Based on these TFRs, the average woman in 1999 would have 1.4 live births in her lifetime, the lowest fertility rate in recent years. This is a significant decrease from the peak in 1959, when the average woman would have had 4.0 live births in her child bearing years.

TABLE 4
TRENDS OF INFANT MORTALITY
BRITISH COLUMBIA AND CANADA, 1965–1999

Year	British Columbia Age at Death (in Days)									Canada
	0–6 Days		0–27 Days		28–364 Days		N.S.	Total		
	Number	Rate	Number	Rate	Number	Rate		Number	Rate	Rate
1965	415	12.3	453	13.5	227	6.7	3	683	20.3	24.0
1966	435	13.4	494	15.2	263	8.1	4	761	23.4	23.1
1967	429	13.0	470	14.3	218	6.6	1	689	20.9	22.0
1968	375	11.1	438	13.0	214	6.4	4	656	19.5	21.0
1969	329	9.3	374	10.6	199	5.6	–	573	16.2	19.0
1970	369	10.0	416	11.3	193	5.2	2	611	16.6	19.0
1971	409	11.7	450	12.9	185	5.3	–	635	18.2	17.5
1972	322	9.3	373	10.8	195	5.6	1	569	16.5	17.0
1973	317	9.2	363	10.6	185	5.4	3	551	16.0	16.0
1974	310	8.7	348	9.8	196	5.5	2	546	15.4	15.0
1975	278	7.7	321	8.8	169	4.7	1	491	13.5	14.3
1976	292	8.1	324	9.0	152	4.2	2	478	13.3	13.5
1977	246	6.7	276	7.5	200	5.5	–	476	13.0	12.4
1978	245	6.6	286	7.7	178	4.8	–	464	12.5	12.0
1979	196	5.1	239	6.2	167	4.3	–	406	10.6	10.9
1980	188	4.7	235	5.9	186	4.6	–	421	10.5	10.4
1981	232	5.6	259	6.2	140	3.4	3	402	9.6	9.6
1982	217	5.1	251	5.8	150	3.5	–	401	9.3	9.1
1983	193	4.5	212	4.9	145	3.4	2	359	8.3	8.5
1984	184	4.2	205	4.7	150	3.4	1	356	8.1	8.1
1985	180	4.2	198	4.6	133	3.1	–	331	7.7	8.0
1986	166	4.0	196	4.7	147	3.5	–	343	8.2	7.9
1987	162	3.9	197	4.7	156	3.7	–	353	8.5	7.3
1988	190	4.4	219	5.1	137	3.2	–	356	8.3	7.2
1989	186	4.3	215	4.9	138	3.2	–	353	8.1	7.3
1990	187	4.1	225	5.0	106	2.3	–	331	7.3	6.8
1991	137	3.0	161	3.6	126	2.8	–	287	6.3	6.4
1992	152	3.3	174	3.8	101	2.2	–	275	6.0	6.1
1993	122	2.7	139	3.0	111	2.4	–	250	5.4	6.3
1994	176	3.8	198	4.2	90	1.9	–	288	6.1	6.3
1995	157	3.4	181	3.9	95	2.0	–	276	5.9	6.3
1996	132	2.9	160	3.5	68	1.5	–	228	5.0	5.6
1997	125	2.8	145	3.3	57	1.3	–	202	4.6	5.5
1998	94	2.2	114	2.7	60	1.4	–	174	4.1	*
1999	83	2.0	105	2.5	51	1.2	–	156	3.7	*

Note: Rates per 1,000 live births in the specified year.
N.S. – Not Stated.
Above information includes late registrations and amendments.
Canadian rates from Statistics Canada.
*1998 and 1999 rates for Canada were not available.
Non-residents are excluded.

TABLE 4
TRENDS OF INFANT MORTALITY
BRITISH COLUMBIA AND CANADA, 1965–1999

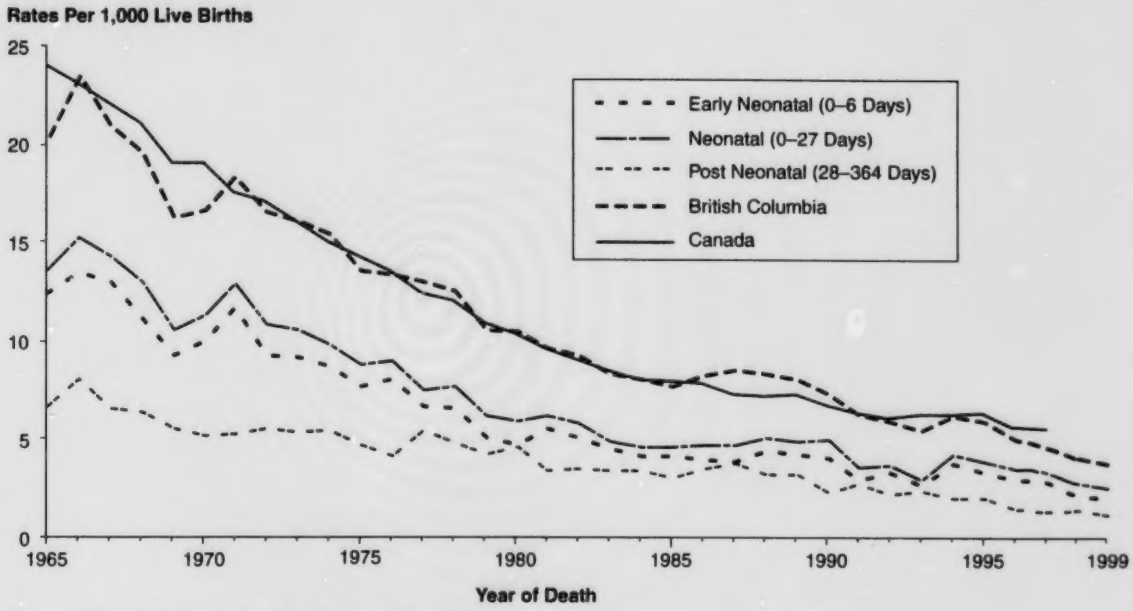
Year	British Columbia Age at Death (in Days)									Canada
	0–6 Days		0–27 Days		28–364 Days			Total		
	Number	Rate	Number	Rate	Number	Rate	N.S.	Number	Rate	Rate
1965	415	12.3	453	13.5	227	6.7	3	683	20.3	24.0
1966	435	13.4	494	15.2	263	8.1	4	761	23.4	23.1
1967	429	13.0	470	14.3	218	6.6	1	689	20.9	22.0
1968	375	11.1	438	13.0	214	6.4	4	656	19.5	21.0
1969	329	9.3	374	10.6	199	5.6	–	573	16.2	19.0
1970	369	10.0	416	11.3	193	5.2	2	611	16.6	19.0
1971	409	11.7	450	12.9	185	5.3	–	635	18.2	17.5
1972	322	9.3	373	10.8	195	5.6	1	569	16.5	17.0
1973	317	9.2	363	10.6	185	5.4	3	551	16.0	16.0
1974	310	8.7	348	9.8	196	5.5	2	546	15.4	15.0
1975	278	7.7	321	8.8	169	4.7	1	491	13.5	14.3
1976	292	8.1	324	9.0	152	4.2	2	478	13.3	13.5
1977	246	6.7	276	7.5	200	5.5	–	476	13.0	12.4
1978	245	6.6	286	7.7	178	4.8	–	464	12.5	12.0
1979	196	5.1	239	6.2	167	4.3	–	406	10.6	10.9
1980	188	4.7	235	5.9	186	4.6	–	421	10.5	10.4
1981	232	5.6	259	6.2	140	3.4	3	402	9.6	9.6
1982	217	5.1	251	5.8	150	3.5	–	401	9.3	9.1
1983	193	4.5	212	4.9	145	3.4	2	359	8.3	8.5
1984	184	4.2	205	4.7	150	3.4	1	356	8.1	8.1
1985	180	4.2	198	4.6	133	3.1	–	331	7.7	8.0
1986	166	4.0	196	4.7	147	3.5	–	343	8.2	7.9
1987	162	3.9	197	4.7	156	3.7	–	353	8.5	7.3
1988	190	4.4	219	5.1	137	3.2	–	356	8.3	7.2
1989	186	4.3	215	4.9	138	3.2	–	353	8.1	7.3
1990	187	4.1	225	5.0	106	2.3	–	331	7.3	6.8
1991	137	3.0	161	3.6	126	2.8	–	287	6.3	6.4
1992	152	3.3	174	3.8	101	2.2	–	275	6.0	6.1
1993	122	2.7	139	3.0	111	2.4	–	250	5.4	6.3
1994	176	3.8	198	4.2	90	1.9	–	288	6.1	6.3
1995	157	3.4	181	3.9	95	2.0	–	276	5.9	6.3
1996	132	2.9	160	3.5	68	1.5	–	228	5.0	5.6
1997	125	2.8	145	3.3	57	1.3	–	202	4.6	5.5
1998	94	2.2	114	2.7	60	1.4	–	174	4.1	*
1999	83	2.0	105	2.5	51	1.2	–	156	3.7	*

Note: Rates per 1,000 live births in the specified year.
N.S. – Not Stated.
Above information includes late registrations and amendments.
Canadian rates from Statistics Canada.
*1998 and 1999 rates for Canada were not available.
Non-residents are excluded.

FIGURE 6

TRENDS OF INFANT MORTALITY

BRITISH COLUMBIA AND CANADA, 1965–1999



Note: 1998 and 1999 rates for Canada were not available.
Non-residents are excluded.

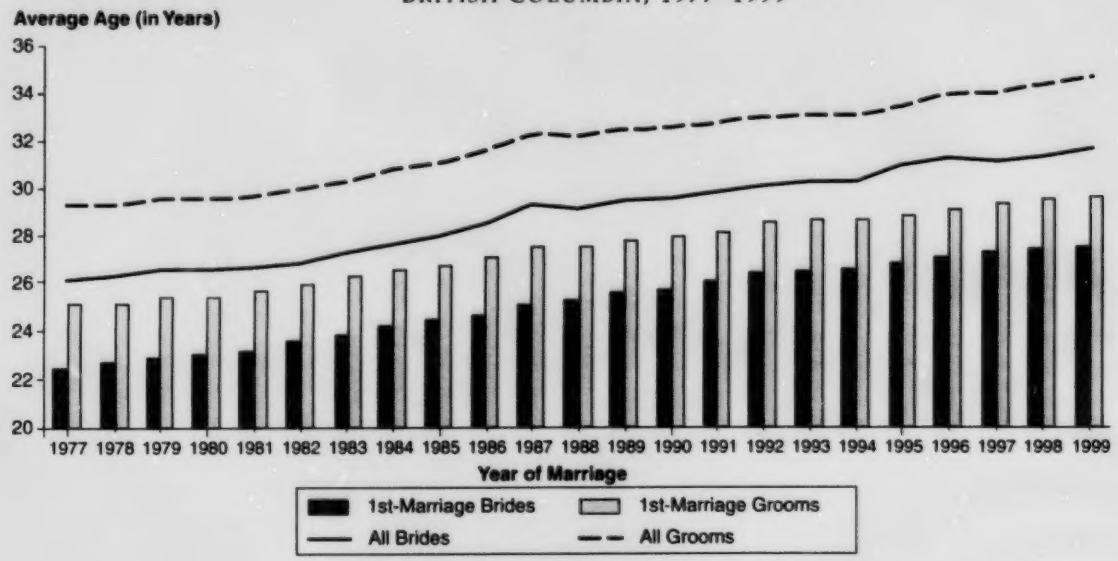
HIGHLIGHTS TO TABLE 4/FIGURE 6

- In 1999, there were 156 infant deaths (age at death less than one year) in the province, for an infant mortality rate of 3.7 per 1,000 live births, a record low rate for British Columbia. This is a decrease from 174 infant deaths and an infant mortality rate of 4.1 per 1,000 live births in 1998. In the last five years, there has been a remarkable decrease in both the number of infant deaths and the infant mortality rate. Since 1991, the B.C. infant mortality rate has been consistently below the Canadian rate.
- Out of the 156 infant deaths by age at death:
  - one half (53.2%) were in the early neonatal period, age at death less than 7 days (83 deaths)
  - one seventh (14.1%) died between 7 and 27 days after birth (22 deaths)
  - one third (32.7%) were in the post-neonatal period, age at death 28–364 days (51 deaths).
- Infant mortality rates in B.C. have fallen dramatically to almost one sixth of the rates in 1965. Decreases in early neonatal mortality (age at death less than seven days) and neonatal mortality (age at death less than 28 days) have been major contributors to the overall decline in infant mortality rates over this time period. In Canada infant mortality rates have fallen to approximately one quarter of the rates seen thirty years ago.
- Perinatal mortality refers to fetal deaths (stillbirths) and early neonatal deaths (age at death less than seven days). Since the causes of stillbirths and early neonatal deaths are frequently so similar, the perinatal mortality rate is frequently used as a health status measure. Reviewing perinatal mortality shows that the decline in infant deaths has not been offset by an increase in stillbirths. Combining data from Tables 1 and 4, perinatal deaths have declined in the last five years, from 507 in 1995 to 377 in 1999, and the perinatal mortality rate declined from 10.8 perinatal deaths per 1,000 total births in 1995 to 9.0 in 1999.
- In the last five years, post neonatal deaths decreased 46.3% from 95 in 1995 to 51 in 1999, and the post neonatal mortality rate declined from 2.0 to 1.2 deaths per 1,000 live births. The 1999 post neonatal statistics were the lowest ever recorded in British Columbia.

TABLE 5
TRENDS IN AGE OF BRIDE AND GROOM
BRITISH COLUMBIA, 1977–1999

Year of Marriage	Average Age (in Years)			
	First Marriage		All Marriages	
	Bride	Groom	Bride	Groom
1977	22.5	25.2	26.2	29.3
1978	22.7	25.2	26.3	29.3
1979	22.9	25.5	26.6	29.6
1980	23.1	25.5	26.6	29.6
1981	23.2	25.7	26.7	29.7
1982	23.6	26.0	26.9	30.0
1983	23.9	26.3	27.3	30.3
1984	24.2	26.6	27.7	30.8
1985	24.5	26.8	28.0	31.1
1986	24.7	27.1	28.5	31.6
1987	25.1	27.6	29.3	32.3
1988	25.3	27.6	29.2	32.2
1989	25.6	27.8	29.5	32.5
1990	25.7	28.0	29.6	32.6
1991	26.1	28.2	29.9	32.8
1992	26.4	28.6	30.1	33.0
1993	26.5	29.0	30.4	33.4
1994	26.6	28.9	30.4	33.5
1995	26.8	29.1	31.1	33.6
1996	27.2	29.2	31.4	34.1
1997	27.3	29.4	31.3	34.1
1998	27.5	29.6	31.6	34.4
1999	27.7	29.8	31.8	34.7

FIGURE 7
TRENDS IN AGE OF BRIDE AND GROOM
BRITISH COLUMBIA, 1977–1999



HIGHLIGHTS TO TABLE 5/FIGURE 7

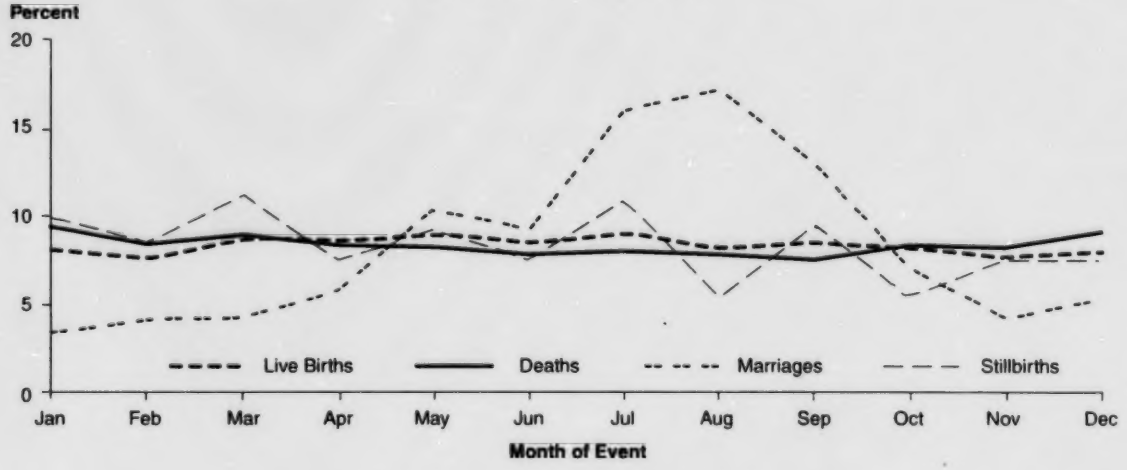
- In 1999, the average age of first-marriage brides was 27.7 years old, while first-marriage grooms were, on average, 29.8 years old.
- In recent decades, there has been a steady increase in the average age of first marriages as couples have chosen to establish their careers or live together first. On average, first-marriage brides in 1999 were 5.2 years older than first-marriage brides in 1977, while first-marriage grooms were 4.6 years older than first-marriage grooms in 1977.
- The average ages of brides and grooms, for first and later marriages combined, have also climbed steadily since 1977. In 1999, the average age of all brides was 31.8 years old, while grooms were 34.7 years old.

TABLE 6
LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS BY MONTH
BRITISH COLUMBIA, 1999

Month	Live Births		Deaths		Marriages		Stillbirths	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
January	3,398	8.1	2,612	9.4	731	3.4	29	9.9
February	3,179	7.6	2,327	8.4	894	4.1	25	8.5
March	3,618	8.7	2,477	8.9	928	4.3	33	11.2
April	3,598	8.6	2,313	8.3	1,263	5.8	22	7.5
May	3,731	8.9	2,292	8.2	2,257	10.4	27	9.2
June	3,548	8.5	2,169	7.8	1,978	9.2	22	7.5
July	3,746	9.0	2,217	8.0	3,461	16.0	32	10.9
August	3,419	8.2	2,158	7.8	3,728	17.2	16	5.4
September	3,557	8.5	2,097	7.5	2,801	13.0	28	9.5
October	3,413	8.2	2,314	8.3	1,535	7.1	16	5.4
November	3,200	7.7	2,278	8.2	900	4.2	22	7.5
December	3,332	8.0	2,540	9.1	1,140	5.3	22	7.5
Total residents	41,739	100.0	27,794	100.0	21,616	100.0	294	100.0
Non-residents	213		324				2	
TOTAL	**41,952**		**28,118**		**21,616**		**296**	

Note: Total percentage may not add up to 100 due to rounding.

FIGURE 8
LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS BY MONTH
BRITISH COLUMBIA, 1999



HIGHLIGHTS TO TABLE 6/FIGURE 8

- Of vital events in the province, only marriages show a seasonal distribution. In 1999, the most popular month to marry was August, with almost one fifth (17.2%) of the year's total marriages. The summer months, from May to September, were chosen by almost two thirds (65.8%) of 1999's brides and grooms. January was the least popular month for marriages in 1999.
- On the last day of 1999, 174 couples celebrated the millennium by getting married. Typically, throughout the year, Fridays and Saturdays were the most popular days for marriages, and this New Year's Eve, a Friday, was no exception. In the last 10 years, the highest number of New Year's Eve marriage ceremonies was in 1994 (198 marriages) when the date fell on a Saturday.
- Live births were generally evenly distributed over the twelve months in 1999. July had the largest number of live births, while February had the lowest number.
- The highest number of deaths in 1999 occurred in January and the lowest number occurred in September.
- In 1999, the largest number of stillbirths was in March.

TABLE 5

TRENDS IN AGE OF BRIDE AND GROOM

BRITISH COLUMBIA, 1977–1999

Year of Marriage	Average Age (in Years)			
	First Marriage		All Marriages	
	Bride	Groom	Bride	Groom
1977	22.5	25.2	26.2	29.3
1978	22.7	25.2	26.3	29.3
1979	22.9	25.5	26.6	29.6
1980	23.1	25.5	26.6	29.6
1981	23.2	25.7	26.7	29.7
1982	23.6	26.0	26.9	30.0
1983	23.9	26.3	27.3	30.3
1984	24.2	26.6	27.7	30.8
1985	24.5	26.8	28.0	31.1
1986	24.7	27.1	28.5	31.6
1987	25.1	27.6	29.3	32.3
1988	25.3	27.6	29.2	32.2
1989	25.6	27.8	29.5	32.5
1990	25.7	28.0	29.6	32.6
1991	26.1	28.2	29.9	32.8
1992	26.4	28.6	30.1	33.0
1993	26.5	29.0	30.4	33.4
1994	26.6	28.9	30.4	33.5
1995	26.8	29.1	31.1	33.6
1996	27.2	29.2	31.4	34.1
1997	27.3	29.4	31.3	34.1
1998	27.5	29.6	31.6	34.4
1999	27.7	29.8	31.8	34.7

FIGURE 7

TRENDS IN AGE OF BRIDE AND GROOM

BRITISH COLUMBIA, 1977–1999

HIGHLIGHTS TO TABLE 5/FIGURE 7

- In 1999, the average age of first-marriage brides was 27.7 years old, while first-marriage grooms were, on average, 29.8 years old.
- In recent decades, there has been a steady increase in the average age of first marriages as couples have chosen to establish their careers or live together first. On average, first-marriage brides in 1999 were 5.2 years older than first-marriage brides in 1977, while first-marriage grooms were 4.6 years older than first-marriage grooms in 1977.
- The average ages of brides and grooms, for first and later marriages combined, have also climbed steadily since 1977. In 1999, the average age of all brides was 31.8 years old, while grooms were 34.7 years old.

TABLE 6

LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS BY MONTH

BRITISH COLUMBIA, 1999

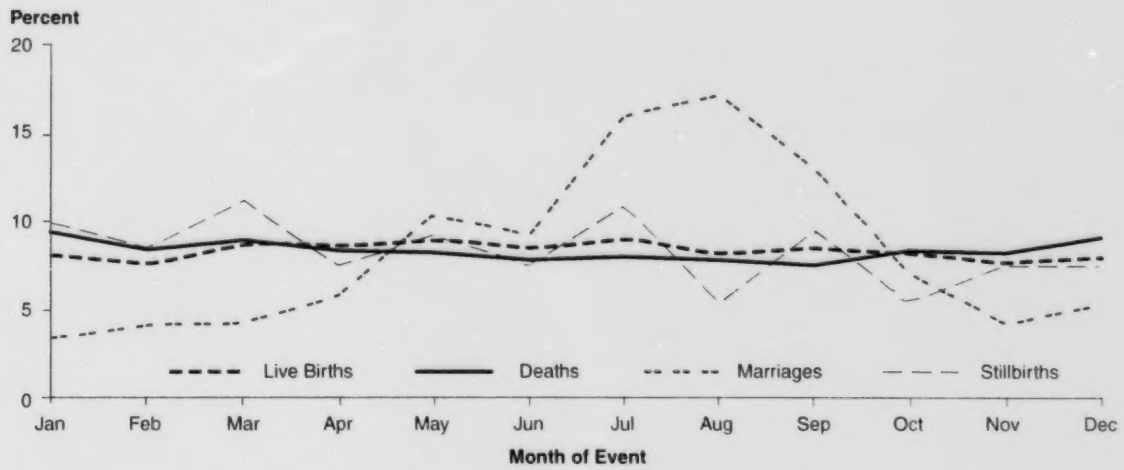
Month	Live Births		Deaths		Marriages		Stillbirths	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
January	3,398	8.1	2,612	9.4	731	3.4	29	9.9
February	3,179	7.6	2,327	8.4	894	4.1	25	8.5
March	3,618	8.7	2,477	8.9	928	4.3	33	11.2
April	3,598	8.6	2,313	8.3	1,263	5.8	22	7.5
May	3,731	8.9	2,292	8.2	2,257	10.4	27	9.2
June	3,548	8.5	2,169	7.8	1,978	9.2	22	7.5
July	3,746	9.0	2,217	8.0	3,461	16.0	32	10.9
August	3,419	8.2	2,158	7.8	3,728	17.2	16	5.4
September	3,557	8.5	2,097	7.5	2,801	13.0	28	9.5
October	3,413	8.2	2,314	8.3	1,535	7.1	16	5.4
November	3,200	7.7	2,278	8.2	900	4.2	22	7.5
December	3,332	8.0	2,540	9.1	1,140	5.3	22	7.5
Total residents	41,739	100.0	27,794	100.0	21,616	100.0	294	100.0
Non-residents	213		324				2	
TOTAL	**41,952**		**28,118**		**21,616**		**296**	

Note: Total percentage may not add up to 100 due to rounding.

FIGURE 8

LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS BY MONTH

BRITISH COLUMBIA, 1999



HIGHLIGHTS TO TABLE 6/FIGURE 8

- Of vital events in the province, only marriages show a seasonal distribution. In 1999, the most popular month to marry was August, with almost one fifth (17.2%) of the year's total marriages. The summer months, from May to September, were chosen by almost two thirds (65.8%) of 1999's brides and grooms. January was the least popular month for marriages in 1999.
- On the last day of 1999, 174 couples celebrated the millennium by getting married. Typically, throughout the year, Fridays and Saturdays were the most popular days for marriages, and this New Year's Eve, a Friday, was no exception. In the last 10 years, the highest number of New Year's Eve marriage ceremonies was in 1994 (198 marriages) when the date fell on a Saturday.
- Live births were generally evenly distributed over the twelve months in 1999. July had the largest number of live births, while February had the lowest number.
- The highest number of deaths in 1999 occurred in January and the lowest number occurred in September.
- In 1999, the largest number of stillbirths was in March.

Birth-related Statistics

Summary

Statistics arising from birth events in British Columbia are presented in this section. These events are assigned to a Local Health Area (LHA) based on the usual residence of the mother. Information is included on birth weights, gestational ages, modes of delivery, maternal and paternal ages, birth orders, kinds of birth, complications of pregnancy and delivery, and complications in the perinatal period. Several of the tables are accompanied by maps depicting variations in rates and ratios by LHA.

Statistics on birth events for 1999 are summarized below:

- There were 41,739 live births to B.C. residents in the province. The 1999 birth rate of 10.36 live births per 1,000 population was the lowest birth rate in the post-war period (23.8 in 1950).
- There were 294 stillbirths in 1999. Including stillbirths, there were 42,033 total births in 1999 to B.C. residents. The 1999 stillbirth rate, 6.99 per 1,000 total births, was slightly higher than the five-year rate of 6.94 for the 1995–1999 period (shown in Appendix 3).
- Out of 100 live births in 1999:
  - 5 were to teenage mothers, less than 20 years old (2,005)
  - 46 were to mothers 20 to 29 years old (19,337)
  - 46 were to mothers 30 to 39 years old (19,277)
  - 3 were to mothers 40 years of age or older (1,120)
- Multiple births occurred in 2.5% of all live births in 1999. There were 967 live born twins and 61 live born triplets. A set of quadruplets was born in B.C. in 1999, for the first time since 1993.
- In 1999, more than one fifth of all live births (22.2%) were delivered by cesarean section (9,282) and almost two thirds of these (5,895) were first cesareans. The 1999 cesarean section rate, 222.38 per 1,000 live births, was higher than the five-year rate of 207.86 for 1995–1999 (Appendix 3).
- There were 15.18 live births per 1,000 young women in the 15–19 age group in 1999. This age-specific fertility rate for 1999 was lower than the 1994–1998 teenage fertility rate of 18.83.
- In 1999, almost nine out of ten live births (36,980) were delivered at term (from 37 to 41 weeks gestation) with normal birth weight (2,500 to 4,499 grams). These babies with "healthy" gestational ages and birth weights accounted for 88.6% of 1999 live births.
- In 1999, there were 1,981 live births with low birth weight (less than 2,500 grams) and 2,672 pre-term (less than 37 weeks gestation) live births. A total of 1,413 babies (3.4%) were both pre-term and low birth weight; out of this group, only one in ten (152 births) was extremely premature (less than 28 weeks gestation) and had very low birth weight (less than 1,500 grams).

M121

IMPORTANT NOTE CONCERNING THE FOLLOWING PAGES

THE PAGES WHICH FOLLOW HAVE BEEN FILMED TWICE IN ORDER TO OBTAIN THE BEST REPRODUCTIVE QUALITY

USERS SHOULD CONSULT ALL THE PAGES REPRODUCED ON THE FICHE IN ORDER TO OBTAIN A COMPLETE READING OF THE TEXT.

REMARQUE IMPORTANTE CONCERNANT LES PAGES QUI SUIVENT

LES PAGES SUIVANTES ONT ÉTÉ REPRODUITES EN DOUBLE AFIN D'AMÉLIORER LA QUALITÉ DE REPRODUCTION

LES UTILISATEURS DOIVENT CONSULTER TOUTES LES PAGES REPRODUITES SUR LA FICHE AFIN D'OBTENIR LA LECTURE DU TEXTE INTÉGRAL

micromedia
a division of IHS Canada

20 Victoria Street
Toronto, Ontario M5C 2N8
Tel.: (416) 362-5211
Toll Free: 1-800-387-2689
Fax: (416) 362-6161
Email: info@micromedia.on.ca

TABLE 7
BIRTHS BY AGE OF MOTHER AND LIVE BIRTHS BY BIRTH ORDER
BRITISH COLUMBIA, 1999

Age of Mother	Birth Order										Total Live Births	Stillbirths	Total Births
	1	2	3	4	5	6	7	8	9+	N.S.			
<13	–	–	–	–	–	–	–	–	–	–	–	–	–
13	1	–	–	–	–	–	–	–	–	–	1	1	2
14	19	–	–	–	–	–	–	–	–	–	19	–	19
15	68	2	–	–	–	–	–	–	–	1	71	4	75
16	198	9	–	–	–	–	–	–	–	–	207	–	207
17	338	35	1	–	–	–	–	–	–	–	374	2	376
18	473	77	4	–	–	–	–	–	–	2	556	3	559
19	623	139	14	–	1	–	–	–	–	–	777	7	784
20	757	214	41	3	1	–	–	–	–	2	1,018	2	1,020
21	766	345	64	7	5	–	–	–	–	2	1,189	6	1,195
22	865	425	106	17	4	–	–	–	–	1	1,418	14	1,432
23	861	542	129	37	5	–	–	–	–	–	1,574	8	1,582
24	954	607	176	38	5	2	–	–	–	3	1,785	3	1,788
25	1,054	684	212	53	10	1	2	–	–	–	2,016	13	2,029
26	1,100	724	251	69	18	2	–	–	–	1	2,165	18	2,183
27	1,164	874	276	91	18	5	3	–	1	–	2,432	19	2,451
28	1,325	1,019	352	85	37	2	4	–	1	2	2,827	18	2,845
29	1,329	1,062	383	102	19	10	3	3	1	1	2,913	23	2,936
30	1,199	1,155	403	119	28	8	3	2	1	–	2,918	11	2,929
31	1,080	1,106	420	109	42	7	6	4	1	2	2,777	19	2,796
32	966	1,053	406	117	38	10	6	4	2	2	2,604	15	2,619
33	855	963	397	127	32	19	5	2	1	–	2,401	23	2,424
34	764	898	370	109	38	23	4	6	3	1	2,216	13	2,229
35	630	865	380	108	26	15	7	5	3	1	2,040	16	2,056
36	481	608	251	105	36	13	8	5	4	–	1,511	19	1,530
37	376	471	254	93	23	9	4	4	3	2	1,239	14	1,253
38	275	350	176	70	23	14	7	3	2	–	920	6	926
39	170	278	107	46	23	13	3	7	4	–	651	6	657
40	132	148	85	33	16	5	4	5	2	–	430	5	435
41	86	118	60	34	7	5	3	5	4	–	322	3	325
42	55	64	29	11	6	1	1	4	3	–	174	2	176
43	30	34	16	10	5	1	–	–	2	–	98	–	98
44	17	16	14	4	3	1	–	–	–	–	55	–	55
45+	4	19	9	3	2	1	1	1	1	–	41	1	42
N.S.	–	–	–	–	–	–	–	–	–	–	–	–	–
TOTAL	**19,015**	**14,904**	**5,386**	**1,600**	**471**	**167**	**74**	**60**	**39**	**23**	**41,739**	**294**	**42,033**

Note: Birth order denotes the number of live births. Non-residents are excluded. N.S. – Not Stated.

HIGHLIGHTS TO TABLE 7

- In 1999, there were 41,739 live births in the province to B.C. residents, 21,540 males and 20,199 females, as shown in Table 13. There were 10.36 live births per 1,000 population in 1999, compared to a birth rate of 11.27 for the 1995–1999 period (Table 10 and Appendix 3).
- Of the 41,739 live births in 1999, almost half (45.6%) were first born (19,015), more than one third (35.7%) were second born (14,904), and about one in five (18.7%) was third born or greater (7,797).
- The average age of B.C. women giving birth in 1999 was 29.2 years. The average maternal age of first live births was 27.5 years, compared to 30.0 years for mothers of second live births and 31.1 years for mothers having their third or more live birth.
- In 1999, there were 2,005 live births to mothers younger than 20 years old, resulting in a teenage mother rate of 48.04 per 1,000 live births (calculated from data presented in this table). This 1999 rate was lower than the teenage mother rate of 50.03 for the 1995–1999 period (Appendix 3). There were 7,481 live births to mother aged 35 or older in 1999. The elderly gravida rate has increased in recent years; the 1999 rate was 179.23 per 1,000 live births, considerably higher than the 1995–1999 five-year rate of 161.25 (Appendix 3).
- There were 294 stillbirths in 1999. Including stillbirths, there were 42,033 total births in 1999 to B.C. residents. The 1999 stillbirth rate was 6.99 per 1,000 total births, and was slightly higher than the five-year rate of 6.94 for the 1995–1999 period (Appendix 3).

TABLE 7
BIRTHS BY AGE OF MOTHER AND LIVE BIRTHS BY BIRTH ORDER
BRITISH COLUMBIA, 1999

Age of Mother	Birth Order										Total Live Births	Stillbirths	Total Births
	1	2	3	4	5	6	7	8	9+	N.S.			
<13	–	–	–	–	–	–	–	–	–	–	–	–	–
13	1	–	–	–	–	–	–	–	–	–	1	1	2
14	19	–	–	–	–	–	–	–	–	–	19	–	19
15	68	2	–	–	–	–	–	–	–	1	71	4	75
16	198	9	–	–	–	–	–	–	–	–	207	–	207
17	338	35	1	–	–	–	–	–	–	–	374	2	376
18	473	77	4	–	–	–	–	–	–	2	556	3	559
19	623	139	14	–	1	–	–	–	–	–	777	7	784
20	757	214	41	3	1	–	–	–	–	2	1,018	2	1,020
21	766	345	64	7	5	–	–	–	–	2	1,189	6	1,195
22	865	425	106	17	4	–	–	–	–	1	1,418	14	1,432
23	861	542	129	37	5	–	–	–	–	–	1,574	8	1,582
24	954	607	176	38	5	2	–	–	–	3	1,785	3	1,788
25	1,054	684	212	53	10	1	2	–	–	–	2,016	13	2,029
26	1,100	724	251	69	18	2	–	–	–	1	2,165	18	2,183
27	1,164	874	276	91	18	5	3	–	1	–	2,432	19	2,451
28	1,325	1,019	352	85	37	2	4	–	1	2	2,827	18	2,845
29	1,329	1,062	383	102	19	10	3	3	1	1	2,913	23	2,936
30	1,199	1,155	403	119	28	8	3	2	1	–	2,918	11	2,929
31	1,080	1,106	420	109	42	7	6	4	1	2	2,777	19	2,796
32	966	1,053	406	117	38	10	6	4	2	2	2,604	15	2,619
33	855	963	397	127	32	19	5	2	1	–	2,401	23	2,424
34	764	898	370	109	38	23	4	6	3	1	2,216	13	2,229
35	630	865	380	108	26	15	7	5	3	1	2,040	16	2,056
36	481	608	251	105	36	13	8	5	4	–	1,511	19	1,530
37	376	471	254	93	23	9	4	4	3	2	1,239	14	1,253
38	275	350	176	70	23	14	7	3	2	–	920	6	926
39	170	278	107	46	23	13	3	7	4	–	651	6	657
40	132	148	85	33	16	5	4	5	2	–	430	5	435
41	86	118	60	34	7	5	3	5	4	–	322	3	325
42	55	64	29	11	6	1	1	4	3	–	174	2	176
43	30	34	16	10	5	1	–	–	2	–	98	–	98
44	17	16	14	4	3	1	–	–	–	–	55	–	55
45+	4	19	9	3	2	1	1	1	1	–	41	1	42
N.S.	–	–	–	–	–	–	–	–	–	–	–	–	–
TOTAL	**19,015**	**14,904**	**5,386**	**1,600**	**471**	**167**	**74**	**60**	**39**	**23**	**41,739**	**294**	**42,033**

Note: Birth order denotes the number of live births. Non-residents are excluded. N.S. – Not Stated.

HIGHLIGHTS TO TABLE 7

- In 1999, there were 41,739 live births in the province to B.C. residents, 21,540 males and 20,199 females, as shown in Table 13. There were 10.36 live births per 1,000 population in 1999, compared to a birth rate of 11.27 for the 1995–1999 period (Table 10 and Appendix 3).
- Of the 41,739 live births in 1999, almost half (45.6%) were first born (19,015), more than one third (35.7%) were second born (14,904), and about one in five (18.7%) was third born or greater (7,797).
- The average age of B.C. women giving birth in 1999 was 29.2 years. The average maternal age of first live births was 27.5 years, compared to 30.0 years for mothers of second live births and 31.1 years for mothers having their third or more live birth.
- In 1999, there were 2,005 live births to mothers younger than 20 years old, resulting in a teenage mother rate of 48.04 per 1,000 live births (calculated from data presented in this table). This 1999 rate was lower than the teenage mother rate of 50.03 for the 1995–1999 period (Appendix 3). There were 7,481 live births to mother aged 35 or older in 1999. The elderly gravida rate has increased in recent years; the 1999 rate was 179.23 per 1,000 live births, considerably higher than the 1995–1999 five-year rate of 161.25 (Appendix 3).
- There were 294 stillbirths in 1999. Including stillbirths, there were 42,033 total births in 1999 to B.C. residents. The 1999 stillbirth rate was 6.99 per 1,000 total births, and was slightly higher than the five-year rate of 6.94 for the 1995–1999 period (Appendix 3).

VITAL STATISTICS INFORMATION BOX

MOST CHOSEN FIRST NAMES FOR BABIES IN 1999

In 1999, Matthew and Emily were the most chosen first names for babies in British Columbia. Among the names chosen for 5 or more babies, there were 565 different names for boys and 635 names for girls. This list is available from the B.C. Vital Statistics Agency or from the Agency's website (http://www.hlth.gov.bc.ca/vs/babynames/index.html).

Over the past decade, there has been a growing trend for alternate spellings of names, especially for girls. If different spellings of the same names were considered, the 20 most popular baby boy names would include 189 boys with Breydon, Braeden, Braden, Braydon, Braiden, or Braedon, and 186 with Christopher, Kristopher, or Kristofer. The 20 most chosen baby girl names would include 229 girls with Caitlyn, Caitlin, Kaitlyn, Katelyn, Kaitlin, Katelynn, or Kaitlynn, 203 girls with Hailey, Haley, Hayley, Haylee, Hailee, or Haylie, and 139 girls with Brianna, Breanna, or Briana.

Most Common Spelling	Total*	Other Spellings of Name	Total for all Variations
Boys' Names			
Matthew	360	Mathew, Mathieu	403
Joshua	319		319
Jacob	317	Jakob	360
Nicholas	295	Nicolas, Nikolas, Nickolas, Nicklaus	392
Ryan	251		251
Brandon	239	Branden, Brandyn, Brandan	273
Michael	231	Micheal	245
Jordan	227	Jordon	233
Alexander	221		221
Liam	217		217
Kyle	212		212
Tyler	207	Tylor	213
Benjamin	207		207
Daniel	199		199
Justin	194		194
Andrew	191		191
William	190		190
Austin	182	Austyn, Austen	196
Cameron	180	Kameron	185
Noah	179		179
Girls' Names			
Emily	279	Emilie	292
Sarah	265	Sara	327
Emma	254		254
Hannah	237	Hanna, Hana	281
Taylor	216	Tayler	228
Jessica	214		214
Megan	202	Meghan, Meagan, Meaghan, Maegan	270
Samantha	179		179
Ashley	154	Ashlee, Ashleigh	172
Madison	146	Maddison, Madisen, Madyson	170
Olivia	134		134
Rachel	132	Rachael	149
Lauren	131	Lauryn	151
Nicole	119		119
Sydney	116	Sidney	138
Julia	111		111
Amanda	111		111
Alyssa	104	Alissa, Elissa	116
Kayla	100	Kaila	110
Grace	100		100

Note: *Total for the name as spelled.

Vital Statistics Information Box

Teen Pregnancy

Three different measures are used in this report to describe pregnancies of teenage women: teenage mother birth rate, teenage fertility rate, and teen pregnancy rate. In the five-year period 1995–1999, mothers under the age of 20 accounted for 50.03 births per 1,000 live births; this is the *teenage mother birth rate* presented in Appendix 3. The births to 15–19 year old mothers can be expressed a different way, as 18.83 live births per 1,000 women in the 15–19 age group; this is the *teenage fertility rate* (the age-specific live birth rate for the 15–19 age group) presented in Table 12 for 1994–1998. A third and broader measure, the *teen pregnancy rate*, is the sum of live births, stillbirths and hospital or clinic abortive outcomes per 1,000 women in the 15–19 age group. The following table presents teen pregnancy numbers and rates for each fiscal year from 1993/1994 to 1998/1999.

Teen pregnancy and pregnancy rates by age group are available on the Health Data Warehouse at http://www.hdw.moh.hnet.bc.ca/hdw/subjects/pregnancy.htm. The data are available for fiscal years 1990/1991 to 1998/1999 by various geographic areas including local health areas and health regions. Readers who do not have access to the Ministry of Health's intranet can request this information from the Vital Statistics Agency.

Teenage Pregnancy (Ages 15–19) Numbers and Rates

British Columbia 1993/1994 to 1998/1999 (Fiscal Years)

	1993/1994	1994/1995	1995/1996	1996/1997	1997/1998	1998/1999
Numbers*						
Live births	2,426	2,497	2,487	2,191	2,118	2,063
Stillbirths	17	25	17	14	27	13
Miscarriages	449	458	387	352	326	280
Abortions	2,713	2,916	2,803	2,875	2,975	2,791
Total pregnancies	5,605	5,896	5,694	5,432	5,446	5,147
Population*	108,996	112,917	117,212	122,949	126,494	128,720
Rates per 1,000*						
Live births	22.3	22.1	21.2	17.8	16.7	16.0
Stillbirths	0.2	0.2	0.2	0.1	0.2	0.1
Miscarriages	4.1	4.1	3.3	2.9	2.6	2.2
Abortions	24.9	25.8	23.9	23.4	23.5	21.7
Teen pregnancy rate	51.4	52.2	48.6	44.2	43.1	40.0

Notes: * Numbers, population, and rates per 1,000 are shown for the female population in the 15 to 19 age group only.
Pregnancies resulting in multiple births were only counted once.

Sources: Live births and stillbirths: British Columbia Vital Statistics Agency.
Hospital and clinic abortions and miscarriages: Information Systems Inpatient Programs, Ministry of Health.

TABLE 8
LIVE BIRTHS BY AGE OF MOTHER AND KIND OF BIRTH
BRITISH COLUMBIA, 1999

Age of Mother	Kind of Birth			Total
	Single	Twin	Triplets+	
<15	20	–	–	20
15–19	1,963	22	–	1,985
20–24	6,883	101	–	6,984
25–29	12,079	268	6	12,353
30–34	12,523	363	30	12,916
35–39	6,153	184	24	6,361
40–44	1,045	29	5	1,079
45+	41	–	–	41
N.S.	–	–	–	–
TOTAL	**40,707**	**967**	**65**	**41,739**

Note: For the multiple births which include stillbirths, only live births are shown in this table.
Triplets+: included in this column are the live births from multiple births of three or more.
Non-residents are excluded. N.S. – Not Stated.

HIGHLIGHTS TO TABLE 8

- Out of the 41,739 live births in 1999, only 1,032 or 2.5% were multiple births. A set of quadruplets was born in B.C. in 1999, for the first time since 1993. Based on this pattern, a set of quadruplets is born in the province once in approximately 268,500 live births.
- Of all live births in 1999:
  - Almost all of the births (97.5%) were singletons (40,707)
  - One twin was born out of every 43 live births (967 twins)
  - One other multiple birth (triplet or more) was born out of approximately every 641 live births (61 triplets and 4 quadruplets).
- Older mothers, 35 years of age or older, had the highest proportion of multiple births; 242 births or 3.2% of live births to these mothers were multiple births. The 768 multiple births to mothers aged 20 to 34 years accounted for 2.4% of births to mothers in this age group. The lowest proportion of multiple births were to teenage mothers; the 22 twins born to teenage mothers accounted for 1.1% of births to mothers in this age group.

VITAL STATISTICS INFORMATION BOX

TEEN PREGNANCY

Three different measures are used in this report to describe pregnancies of teenage women: teenage mother birth rate, teenage fertility rate, and teen pregnancy rate. In the five-year period 1995–1999, mothers under the age of 20 accounted for 50.03 births per 1,000 live births; this is the *teenage mother birth rate* presented in Appendix 3. The births to 15–19 year old mothers can be expressed a different way, as 18.83 live births per 1,000 women in the 15–19 age group; this is the *teenage fertility rate* (the age-specific live birth rate for the 15–19 age group) presented in Table 12 for 1994–1998. A third and broader measure, the *teen pregnancy rate*, is the sum of live births, stillbirths and hospital or clinic abortive outcomes per 1,000 women in the 15–19 age group. The following table presents teen pregnancy numbers and rates for each fiscal year from 1993/1994 to 1998/1999.

Teen pregnancy and pregnancy rates by age group are available on the Health Data Warehouse at http://www.hdw.moh.hnet.bc.ca/hdw/subjects/pregnancy.htm. The data are available for fiscal years 1990/1991 to 1998/1999 by various geographic areas including local health areas and health regions. Readers who do not have access to the Ministry of Health's intranet can request this information from the Vital Statistics Agency.

TEENAGE PREGNANCY (AGES 15–19) NUMBERS AND RATES

BRITISH COLUMBIA 1993/1994 TO 1998/1999 (FISCAL YEARS)

	1993/1994	1994/1995	1995/1996	1996/1997	1997/1998	1998/1999
Numbers*						
Live births	2,426	2,497	2,487	2,191	2,118	2,063
Stillbirths	17	25	17	14	27	13
Miscarriages	449	458	387	352	326	280
Abortions	2,713	2,916	2,803	2,875	2,975	2,791
Total pregnancies	5,605	5,896	5,694	5,432	5,446	5,147
Population*	108,996	112,917	117,212	122,949	126,494	128,720
Rates per 1,000*						
Live births	22.3	22.1	21.2	17.8	16.7	16.0
Stillbirths	0.2	0.2	0.2	0.1	0.2	0.1
Miscarriages	4.1	4.1	3.3	2.9	2.6	2.2
Abortions	24.9	25.8	23.9	23.4	23.5	21.7
Teen pregnancy rate	51.4	52.2	48.6	44.2	43.1	40.0

Notes: * Numbers, population, and rates per 1,000 are shown for the female population in the 15 to 19 age group only. Pregnancies resulting in multiple births were only counted once.

Sources: Live births and stillbirths: British Columbia Vital Statistics Agency.
Hospital and clinic abortions and miscarriages: Information Systems Inpatient Programs, Ministry of Health.

TABLE 8
LIVE BIRTHS BY AGE OF MOTHER AND KIND OF BIRTH
BRITISH COLUMBIA, 1999

Age of Mother	Kind of Birth			Total
	Single	Twin	Triplets+	
<15	20	–	–	20
15–19	1,963	22	–	1,985
20–24	6,883	101	–	6,984
25–29	12,079	268	6	12,353
30–34	12,523	363	30	12,916
35–39	6,153	184	24	6,361
40–44	1,045	29	5	1,079
45+	41	–	–	41
N.S.	–	–	–	–
TOTAL	**40,707**	**967**	**65**	**41,739**

Note: For the multiple births which include stillbirths, only live births are shown in this table.
Triplets+: included in this column are the live births from multiple births of three or more.
Non-residents are excluded. N.S. – Not Stated.

HIGHLIGHTS TO TABLE 8

- Out of the 41,739 live births in 1999, only 1,032 or 2.5% were multiple births. A set of quadruplets was born in B.C. in 1999, for the first time since 1993. Based on this pattern, a set of quadruplets is born in the province once in approximately 268,500 live births.
- Of all live births in 1999:
  - Almost all of the births (97.5%) were singletons (40,707)
  - One twin was born out of every 43 live births (967 twins)
  - One other multiple birth (triplet or more) was born out of approximately every 641 live births (61 triplets and 4 quadruplets).
- Older mothers, 35 years of age or older, had the highest proportion of multiple births; 242 births or 3.2% of live births to these mothers were multiple births. The 768 multiple births to mothers aged 20 to 34 years accounted for 2.4% of births to mothers in this age group. The lowest proportion of multiple births were to teenage mothers; the 22 twins born to teenage mothers accounted for 1.1% of births to mothers in this age group.

TABLE 9
LIVE BIRTHS BY MODE OF DELIVERY AND AGE OF MOTHER
BRITISH COLUMBIA, 1999

Mode of Delivery	Age of Mother (in Years)									Total	Percent
	<15	15–19	20–24	25–29	30–34	35–39	40–44	45+	N.S.		
Spontaneous vertex	16	1,509	4,938	8,204	8,277	3,827	546	16	–	27,333	65.5
Spontaneous breech	–	6	30	67	121	55	8	–	–	287	0.7
Forceps	1	96	362	666	692	301	55	1	–	2,174	5.2
Vacuum	–	99	397	708	608	271	50	3	–	2,136	5.1
First cesarean	3	225	893	1,703	1,818	1,007	235	11	–	5,895	14.1
Repeat cesarean	–	13	283	838	1,250	823	172	8	–	3,387	8.1
N.S.	–	37	81	167	150	77	13	2	–	527	1.3
TOTAL	**20**	**1,985**	**6,984**	**12,353**	**12,916**	**6,361**	**1,079**	**41**	**–**	**41,739**	**100.0**
Percent	**0.0**	**4.8**	**16.7**	**29.6**	**30.9**	**15.2**	**2.6**	**0.1**	**–**	**100.0**	

Note: Breech presentations may be coded to forceps, vacuum, or cesarean mode of delivery, as well as spontaneous breech. The Notice of Live Birth or Stillbirth was revised in 1998 to add Vacuum as a mode of delivery (previously included in Forceps/Suction). Total percentage may not add up to 100 due to rounding. Non-residents are excluded. N.S. – Not Stated.

HIGHLIGHTS TO TABLE 9

- In 1998, the British Columbia Vital Statistics Agency introduced a revised *Notice of Live Birth or Stillbirth* which contained a box where physicians could specify vacuum as a mode of delivery. The addition of this box has increased reporting of vacuum assisted births. There were 2,136 births requiring vacuum assistance in 1999. In previous annual reports, forceps and vacuum were combined as modes of delivery.
- Approximately two thirds of 1999 live births were delivered spontaneously: 65.5% (27,333) were spontaneous vertex (head first) and 0.7% (287) were spontaneous breech (buttocks or feet first). One in twenty births required either the use of forceps (2,174 births) or vacuum (2,136).
- In 1999, more than one fifth of all live births (22.2%) were delivered by cesarean section (9,282) and almost two thirds of these (5,895) were first cesareans. The 1999 cesarean section rate, 222.38 per 1,000 live births, was higher than the rate of 207.86 for 1995–1999 (Appendix 3).
- Among teenage mothers (less than 20 years of age), one in eight live births (12.0% or 241 births) were delivered by cesarean section. Of these, only 5.4% (13) were repeat cesarean sections.
- One fifth (21.0%) of live births to mothers aged 20 to 34 years were delivered by cesarean section (6,785). Of these deliveries, 34.9% were repeat C-sections (2,371).
- For mothers aged 35 or older, more than one in three live births (30.2%) was delivered by cesarean section (2,256). Of these deliveries, 44.5% (1,003) were repeat C-sections.

VITAL STATISTICS INFORMATION BOX

BIRTHS TO NON-RESIDENT MOTHERS

BRITISH COLUMBIA, 1999

Usual Residence of Mother	Number of Births
Canada	
Alberta	56
Ontario	17
Yukon	12
Northwest Territories	9
Saskatchewan	6
Other provinces	7
Total Canada	**107**
United States	
Idaho	9
Washington	8
California	7
North Carolina	3
Other states	20
Total United States	**47**
Asia	
Hong Kong	7
Taiwan	14
China	4
Other Asian Countries	8
Total Asia	**33**
Other Countries	**26**
TOTAL	**213**

Note: Births includes live births plus stillbirths.

TABLE 9
LIVE BIRTHS BY MODE OF DELIVERY AND AGE OF MOTHER
BRITISH COLUMBIA, 1999

Mode of Delivery	Age of Mother (in Years)									Total	Percent
	<15	15–19	20–24	25–29	30–34	35–39	40–44	45+	N.S.		
Spontaneous vertex	16	1,509	4,938	8,204	8,277	3,827	546	16	–	27,333	65.5
Spontaneous breech	–	6	30	67	121	55	8	–	–	287	0.7
Forceps	1	96	362	666	692	301	55	1	–	2,174	5.2
Vacuum	–	99	397	708	608	271	50	3	–	2,136	5.1
First cesarean	3	225	893	1,703	1,818	1,007	235	11	–	5,895	14.1
Repeat cesarean	–	13	283	838	1,250	823	172	8	–	3,387	8.1
N.S.	–	37	81	167	150	77	13	2	–	527	1.3
TOTAL	**20**	**1,985**	**6,984**	**12,353**	**12,916**	**6,361**	**1,079**	**41**	**–**	**41,739**	**100.0**
Percent	**0.0**	**4.8**	**16.7**	**29.6**	**30.9**	**15.2**	**2.6**	**0.1**	**–**	**100.0**	

Note: Breech presentations may be coded to forceps, vacuum, or cesarean mode of delivery, as well as spontaneous breech. The Notice of Live Birth or Stillbirth was revised in 1998 to add Vacuum as a mode of delivery (previously included in Forceps/Suction). Total percentage may not add up to 100 due to rounding. Non-residents are excluded. N.S. – Not Stated.

HIGHLIGHTS TO TABLE 9

- In 1998, the British Columbia Vital Statistics Agency introduced a revised *Notice of Live Birth or Stillbirth* which contained a box where physicians could specify vacuum as a mode of delivery. The addition of this box has increased reporting of vacuum assisted births. There were 2,136 births requiring vacuum assistance in 1999. In previous annual reports, forceps and vacuum were combined as modes of delivery.
- Approximately two thirds of 1999 live births were delivered spontaneously: 65.5% (27,333) were spontaneous vertex (head first) and 0.7% (287) were spontaneous breech (buttocks or feet first). One in twenty births required either the use of forceps (2,174 births) or vacuum (2,136).
- In 1999, more than one fifth of all live births (22.2%) were delivered by cesarean section (9,282) and almost two thirds of these (5,895) were first cesareans. The 1999 cesarean section rate, 222.38 per 1,000 live births, was higher than the rate of 207.86 for 1995–1999 (Appendix 3).
- Among teenage mothers (less than 20 years of age), one in eight live births (12.0% or 241 births) were delivered by cesarean section. Of these, only 5.4% (13) were repeat cesarean sections.
- One fifth (21.0%) of live births to mothers aged 20 to 34 years were delivered by cesarean section (6,785). Of these deliveries, 34.9% were repeat C-sections (2,371).
- For mothers aged 35 or older, more than one in three live births (30.2%) was delivered by cesarean section (2,256). Of these deliveries, 44.5% (1,003) were repeat C-sections.

VITAL STATISTICS INFORMATION BOX

BIRTHS TO NON-RESIDENT MOTHERS

BRITISH COLUMBIA, 1999

Usual Residence of Mother	Number of Births
Canada	
Alberta	56
Ontario	17
Yukon	12
Northwest Territories	9
Saskatchewan	6
Other provinces	7
Total Canada	**107**
United States	
Idaho	9
Washington	8
California	7
North Carolina	3
Other states	20
Total United States	**47**
Asia	
Hong Kong	7
Taiwan	14
China	4
Other Asian Countries	8
Total Asia	**33**
Other Countries	**26**
TOTAL	**213**

Note: Births includes live births plus stillbirths.

LIVE BIRTHS BY LOCAL HEALTH AREA AND MODE OF DELIVERY

Local Health Area		Spontaneous Vertex	Cesarean					Other	N.S.	Total Live Births	
			First	Repeat	Total	Ratio (p)	Percent			Number	Rate
001	Fernie	80	14	18	32	1.11	24.6	14	4	130	7.86
002	Cranbrook	197	23	8	31	0.56 *	12.5	17	3	248	9.45
003	Kimberley	48	6	6	12	0.86	19.0	2	1	63	7.04
004	Windermere	52	6	6	12	0.70	15.6	12	1	77	8.17
005	Creston	108	19	12	31	0.95	21.2	6	1	146	11.10
006/007	Kootenay Lake/Nelson	184	27	6	33	0.61 *	13.5	13	15	245	8.40
009	Castlegar	83	20	9	29	1.07	23.8	10	–	122	8.82
010	Arrow Lakes	30	8	3	11	1.01	22.4	4	4	49	9.10
011	Trail	103	36	19	55	1.45 *	32.2	8	5	171	8.17
012/013	Grand Forks/Kettle Valley	61	9	16	25	1.21	26.9	6	1	93	7.05
014	Southern Okanagan	95	15	10	25	0.80	17.9	15	5	140	7.49
015	Penticton	245	45	19	64	0.85	18.9	19	11	339	8.41
016	Keremeos	29	4	4	8	0.90	20.0	3	–	40	8.48
017	Princeton	26	4	1	5	0.62	13.9	5	–	36	6.88
018	Golden	60	12	7	19	1.03	22.9	4	–	83	10.67
019	Revelstoke	38	7	14	21	1.33	29.6	6	6	71	8.13
020	Salmon Arm	144	45	30	75	1.39 *	30.9	14	10	243	7.33
021	Armstrong–Spallumcheen	58	14	11	25	1.25	27.8	6	1	90	9.09
022	Vernon	347	84	61	145	1.21 *	27.0	34	11	537	9.10
023	Central Okanagan	915	212	115	327	1.05	23.3	122	40	1,404	9.31
024	Kamloops	630	132	86	218	1.05	23.2	63	27	938	8.88
025	100 Mile House	86	23	6	29	0.94	21.0	21	2	138	8.40
026	North Thompson	40	1	5	6	0.53	11.8	5	–	51	9.58
027	Cariboo–Chilcotin	201	79	43	122	1.54 *	34.3	33	–	356	12.12
028	Quesnel	187	59	41	100	1.44 *	31.9	22	4	313	11.39
029	Lillooet	49	8	2	10	0.67	14.9	7	1	67	13.67
030	South Cariboo	49	4	6	10	0.67	14.9	6	2	67	8.51
031	Merritt	70	12	7	19	0.85	18.8	9	3	101	8.28
032	Hope	46	6	11	17	1.03	23.0	11	–	74	8.75
033	Chilliwack	545	109	89	198	1.04	23.2	97	15	855	11.95
034	Abbotsford	999	192	128	320	0.93	20.6	216	19	1,554	13.51
035	Langley	883	152	114	266	0.93	20.7	127	10	1,286	11.36
036	Surrey	2,947	707	425	1,132	1.06 *	23.6	690	24	4,793	13.55
037	Delta	668	134	99	233	0.98	21.8	160	7	1,068	10.51
038	Richmond	932	214	135	349	1.03	23.0	229	9	1,519	9.26
040	New Westminster	407	90	30	120	0.87	19.3	84	10	621	11.46
041	Burnaby	1,358	265	124	389	0.87 *	19.4	239	17	2,003	10.53
042	Maple Ridge	548	119	84	203	1.05	23.3	114	5	870	11.31
043	Coquitlam	1,444	281	138	419	0.87 *	19.3	261	48	2,172	11.56
044	North Vancouver	887	192	95	287	0.95	21.1	174	11	1,359	10.44
045	West Vancouver–Bowen Is.	202	42	29	71	1.04	23.1	31	4	308	6.24
046	Sunshine Coast	151	28	13	41	0.87	19.3	17	3	212	7.78
047	Powell River	96	18	21	39	1.13	25.2	19	1	155	7.46
048	Howe Sound	288	52	27	79	0.87	19.4	37	4	408	13.16
049	Bella Coola Valley	41	7	3	10	0.76	16.9	7	1	59	16.86
050	Queen Charlotte	49	5	3	8	0.59	13.1	4	–	61	10.50
051	Snow Country	5	3	–	3	1.35	30.0	2	–	10	12.18
052	Prince Rupert	145	22	10	32	0.66 *	14.7	25	16	218	11.63
053	Upper Skeena	58	1	6	7	0.43 *	9.6	8	–	73	12.02
054	Smithers	187	34	33	67	1.07	23.8	23	4	281	14.97
055/093	Burns Lake/Eutsuk	61	11	7	18	0.92	20.5	8	1	88	11.09
056	Nechako	176	25	15	40	0.77	17.1	15	3	234	12.67
057	Prince George	814	149	117	266	1.02	22.6	77	19	1,176	10.99
059	Peace River South	229	26	29	55	0.78	17.3	30	4	318	10.91
060	Peace River North	327	49	41	90	0.92	20.4	17	7	441	14.35
061	Greater Victoria	1,176	281	150	431	1.10	24.4	148	11	1,766	8.60
062	Sooke	375	81	57	138	1.11	24.7	44	2	559	10.34
063	Saanich	267	59	29	88	1.02	22.6	30	4	389	6.45
064	Gulf Islands	73	7	5	12	0.57	12.8	7	2	94	6.45
065	Cowichan	350	65	30	95	0.84	18.7	57	5	507	9.45
066	Lake Cowichan	38	7	7	14	1.02	22.6	9	1	62	9.39
067	Ladysmith	111	19	11	30	0.83	18.4	17	5	163	10.08
068	Nanaimo	572	126	64	190	1.01	22.4	82	5	849	9.05
069	Qualicum	172	57	14	71	1.21	26.9	20	1	264	6.60
070	Alberni	236	36	30	66	0.91	20.2	21	3	326	9.79
071	Courtenay	384	81	30	111	0.93	20.7	35	5	535	8.95
072/084	Campbell River/V.I. West	295	68	32	100	1.03	23.0	33	7	435	9.86
075	Mission	314	56	40	96	0.93	20.6	48	7	465	12.46
076	Agassiz–Harrison	45	9	6	15	0.92	20.5	12	1	73	8.96
077	Summerland	62	9	4	13	0.68	15.1	10	1	86	7.53
078	Enderby	44	9	7	16	1.12	25.0	2	2	64	8.25
080	Kitimat	84	37	9	46	1.45 *	32.2	11	2	143	10.96
081	Fort Nelson	54	17	4	21	1.00	22.3	17	2	94	14.26
083	Central Coast	22	1	4	5	0.73	16.1	4	–	31	15.17
085	Vancouver Island North	123	19	19	38	0.94	21.0	19	1	181	11.68
087/094	Stikine/Telegraph Creek	19	1	1	2	0.41	9.1	1	–	22	11.03
088	Terrace	200	43	28	71	1.06	23.7	23	6	300	12.52
092	Nishga	20	2	2	4	0.75	16.7	–	–	24	10.33
161	Vancouver City Centre	387	135	26	161	1.10	24.5	105	4	657	6.93
162	Vancouver Downtown E. Side	298	92	23	115	1.12	24.9	42	6	461	8.73
163	Vancouver North East	760	181	105	286	1.10	24.4	117	7	1,170	12.36
164	Vancouver West Side	637	175	60	235	1.01	22.4	170	5	1,047	8.53
165	Vancouver Midtown	673	184	87	271	1.12	25.0	122	18	1,084	12.65
166	Vancouver South	833	177	106	283	0.97	21.6	183	14	1,313	11.05
039	**VANCOUVER TOTAL**	**3,589**	**944**	**407**	**1,351**	**1.06 ***	**23.6**	**739**	**54**	**5,733**	**10.07**
	N.S.	–	–	–	–	–	–	–	–	–	–
	PROVINCIAL TOTAL	**27,333**	**5,895**	**3,387**	**9,282**	**1.00**	**22.2**	**4,597**	**527**	**41,739**	**10.36**

Note: Ratio – observed over the expected cesareans in the specified area. Percent based upon live births in the specified area. Rate per 1,000 population in the specified area. *Statistical testing indicates that observed cesarean births are significantly different from the expected ($p<0.05$, two tailed). Other is comprised of spontaneous breech, forceps, and vacuum. LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not Stated. Non-residents are excluded.

TABLE 10

LIVE BIRTHS BY LOCAL HEALTH AREA AND MODE OF DELIVERY

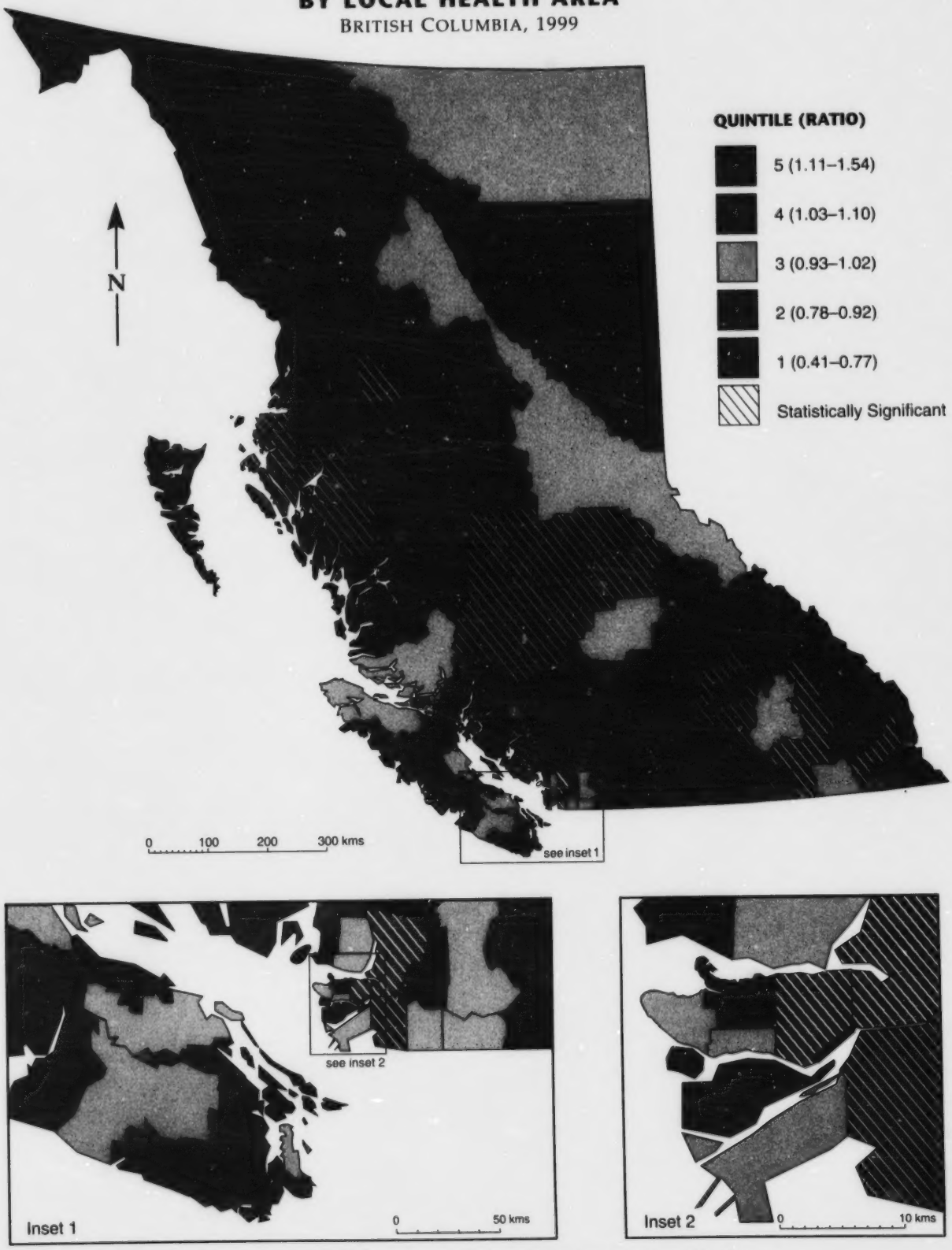
Local Health Area		Spontaneous Vertex	Cesarean					Other	N.S.	Total Live Births	
			First	Repeat	Total	Ratio (p)	Percent			Number	Rate
001	Fernie	80	14	18	32	1.11	24.6	14	4	130	7.86
002	Cranbrook	197	23	8	31	0.56 *	12.5	17	3	248	9.45
003	Kimberley	48	6	6	12	0.86	19.0	2	1	63	7.04
004	Windermere	52	6	6	12	0.70	15.6	12	1	77	8.17
005	Creston	108	19	12	31	0.95	21.2	6	1	146	11.10
006/007	Kootenay Lake/Nelson	184	27	6	33	0.61 *	13.5	13	15	245	8.40
009	Castlegar	83	20	9	29	1.07	23.8	10	–	122	8.82
010	Arrow Lakes	30	8	3	11	1.01	22.4	4	4	49	9.10
011	Trail	103	36	19	55	1.45 *	32.2	8	5	171	8.17
012/013	Grand Forks/Kettle Valley	61	9	16	25	1.21	26.9	6	1	93	7.05
014	Southern Okanagan	95	15	10	25	0.80	17.9	15	5	140	7.49
015	Penticton	245	45	19	64	0.85	18.9	19	11	339	8.41
016	Keremeos	29	4	4	8	0.90	20.0	3	–	40	8.48
017	Princeton	26	4	1	5	0.62	13.9	5	–	36	6.88
018	Golden	60	12	7	19	1.03	22.9	4	–	83	10.67
019	Revelstoke	38	7	14	21	1.33	29.6	6	6	71	8.13
020	Salmon Arm	144	45	30	75	1.39 *	30.9	14	10	243	7.33
021	Armstrong–Spallumcheen	58	14	11	25	1.25	27.8	6	1	90	9.09
022	Vernon	347	84	61	145	1.21 *	27.0	34	11	537	9.10
023	Central Okanagan	915	212	115	327	1.05	23.3	122	40	1,404	9.31
024	Kamloops	630	132	86	218	1.05	23.2	63	27	938	8.88
025	100 Mile House	86	23	6	29	0.94	21.0	21	2	138	8.40
026	North Thompson	40	1	5	6	0.53	11.8	5	–	51	9.58
027	Cariboo–Chilcotin	201	79	43	122	1.54 *	34.3	33	–	356	12.12
028	Quesnel	187	59	41	100	1.44 *	31.9	22	4	313	11.39
029	Lillooet	49	8	2	10	0.67	14.9	7	1	67	13.67
030	South Cariboo	49	4	6	10	0.67	14.9	6	2	67	8.51
031	Merritt	70	12	7	19	0.85	18.8	9	3	101	8.28
032	Hope	46	6	11	17	1.03	23.0	11	–	74	8.75
033	Chilliwack	545	109	89	198	1.04	23.2	97	15	855	11.95
034	Abbotsford	999	192	128	320	0.93	20.6	216	19	1,554	13.51
035	Langley	883	152	114	266	0.93	20.7	127	10	1,286	11.36
036	Surrey	2,947	707	425	1,132	1.06 *	23.6	690	24	4,793	13.55
037	Delta	668	134	99	233	0.98	21.8	160	7	1,068	10.51
038	Richmond	932	214	135	349	1.03	23.0	229	9	1,519	9.26
040	New Westminster	407	90	30	120	0.87	19.3	84	10	621	11.46
041	Burnaby	1,358	265	124	389	0.87 *	19.4	239	17	2,003	10.53
042	Maple Ridge	548	119	84	203	1.05	23.3	114	5	870	11.31
043	Coquitlam	1,444	281	138	419	0.87 *	19.3	261	48	2,172	11.56
044	North Vancouver	887	192	95	287	0.95	21.1	174	11	1,359	10.44
045	West Vancouver–Bowen Is.	202	42	29	71	1.04	23.1	31	4	308	6.24
046	Sunshine Coast	151	28	13	41	0.87	19.3	17	3	212	7.78
047	Powell River	96	18	21	39	1.13	25.2	19	1	155	7.46
048	Howe Sound	288	52	27	79	0.87	19.4	37	4	408	13.16
049	Bella Coola Valley	41	7	3	10	0.76	16.9	7	1	59	16.86
050	Queen Charlotte	49	5	3	8	0.59	13.1	4	–	61	10.50
051	Snow Country	5	3	–	3	1.35	30.0	2	–	10	12.18
052	Prince Rupert	145	22	10	32	0.66 *	14.7	25	16	218	11.63
053	Upper Skeena	58	1	6	7	0.43 *	9.6	8	–	73	12.02
054	Smithers	187	34	33	67	1.07	23.8	23	4	281	14.97
055/093	Burns Lake/Eutsuk	61	11	7	18	0.92	20.5	8	1	88	11.09
056	Nechako	176	25	15	40	0.77	17.1	15	3	234	12.67
057	Prince George	814	149	117	266	1.02	22.6	77	19	1,176	10.99
059	Peace River South	229	26	29	55	0.78	17.3	30	4	318	10.91
060	Peace River North	327	49	41	90	0.92	20.4	17	7	441	14.35
061	Greater Victoria	1,176	281	150	431	1.10	24.4	148	11	1,766	8.60
062	Sooke	375	81	57	138	1.11	24.7	44	2	559	10.34
063	Saanich	267	59	29	88	1.02	22.6	30	4	389	6.45
064	Gulf Islands	73	7	5	12	0.57	12.8	7	2	94	6.45
065	Cowichan	350	65	30	95	0.84	18.7	57	5	507	9.45
066	Lake Cowichan	38	7	7	14	1.02	22.6	9	1	62	9.39
067	Ladysmith	111	19	11	30	0.83	18.4	17	5	163	10.08
068	Nanaimo	572	126	64	190	1.01	22.4	82	5	849	9.05
069	Qualicum	172	57	14	71	1.21	26.9	20	1	264	6.60
070	Alberni	236	36	30	66	0.91	20.2	21	3	326	9.79
071	Courtenay	384	81	30	111	0.93	20.7	35	5	535	8.95
072/084	Campbell River/V.I. West	295	68	32	100	1.03	23.0	33	7	435	9.86
075	Mission	314	56	40	96	0.93	20.6	48	7	465	12.46
076	Agassiz–Harrison	45	9	6	15	0.92	20.5	12	1	73	8.96
077	Summerland	62	9	4	13	0.68	15.1	10	1	86	7.53
078	Enderby	44	9	7	16	1.12	25.0	2	2	64	8.25
080	Kitimat	84	37	9	46	1.45 *	32.2	11	2	143	10.96
081	Fort Nelson	54	17	4	21	1.00	22.3	17	2	94	14.26
083	Central Coast	22	1	4	5	0.73	16.1	4	–	31	15.17
085	Vancouver Island North	123	19	19	38	0.94	21.0	19	1	181	11.68
087/094	Stikine/Telegraph Creek	19	1	1	2	0.41	9.1	1	–	22	11.03
088	Terrace	200	43	28	71	1.06	23.7	23	6	300	12.52
092	Nishga	20	2	2	4	0.75	16.7	–	–	24	10.33
161	Vancouver City Centre	387	135	26	161	1.10	24.5	105	4	657	6.93
162	Vancouver Downtown E. Side	298	92	23	115	1.12	24.9	42	6	461	8.73
163	Vancouver North East	760	181	105	286	1.10	24.4	117	7	1,170	12.36
164	Vancouver West Side	637	175	60	235	1.01	22.4	170	5	1,047	8.53
165	Vancouver Midtown	673	184	87	271	1.12	25.0	122	18	1,084	12.65
166	Vancouver South	833	177	106	283	0.97	21.6	183	14	1,313	11.05
039	**VANCOUVER TOTAL**	**3,589**	**944**	**407**	**1,351**	**1.06 ***	**23.6**	**739**	**54**	**5,733**	**10.07**
	N.S.	–	–	–	–	–	–	–	–	–	–
	PROVINCIAL TOTAL	**27,333**	**5,895**	**3,387**	**9,282**	**1.00**	**22.2**	**4,597**	**527**	**41,739**	**10.36**

Note: Ratio - observed over the expected cesareans in the specified area. Percent based upon live births in the specified area. Rate per 1,000 population in the specified area. *Statistical testing indicates that observed cesarean births are significantly different from the expected ($p<0.05$, two tailed). Other is comprised of spontaneous breech, forceps, and vacuum. LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not Stated. Non-residents are excluded.

FIGURE 9

CESAREAN DELIVERIES OF LIVE BORN INFANTS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1999



Note: Ratio – Observed over the expected. Refer to Figure 1 to clarify geographical location of Local Health Areas.

HIGHLIGHTS TO TABLE 10/FIGURE 9

- There were 9,282 cesarean deliveries of live born babies in 1999, and 27,333 spontaneous vertex deliveries. Based on these data, the 1999 cesarean section rate was 222.38 per 1,000 live births, higher than 1995–1999 C-section rate of 207.86 (Appendix 3).
- The ratio presented in Table 10 is ratio of the number of C-section births in the area to the number that would be expected based on the provincial rate and the number of live births in the area. The seven Local Health Areas (LHAs) with cesarean ratios which were statistically significant and high in 1999 (with the number of cesarean deliveries in parentheses) were:

027	Cariboo–Chilcotin	1.54	(122)
011	Trail	1.45	(55)
080	Kitimat	1.45	(46)
028	Quesnel	1.44	(100)
020	Salmon Arm	1.39	(75)
022	Vernon	1.21	(145)
036	Surrey	1.06	(1,132)

Cariboo–Chilcotin, Kitimat and Salmon Arm were also among the five LHAs with the highest C-section rates per 1,000 live births for 1995–1999 (Appendix 3).

- The six LHAs with cesarean ratios which were statistically significant and low in 1999 (with the number of cesarean deliveries in parentheses) were:

053	Upper Skeena	0.43	(7)
002	Cranbrook	0.56	(31)
006/007	Kootenay Lake/Nelson	0.61	(33)
052	Prince Rupert	0.66	(32)
043	Coquitlam	0.87	(419)
041	Burnaby	0.87	(389)

Upper Skeena, Cranbrook, and Kootenay Lake/Nelson were also among the five LHAs with the lowest C-section rates per 1,000 live births for 1995–1999 (Appendix 3).

- The 1999 provincial live birth rate was 10.36 live births per 1,000 population, which was lower than the five-year rate of 11.27 for the 1995–1999 period (Appendix 3.) The five LHAs with the highest live birth rates in 1999 (actual numbers in parentheses) were:

049	Bella Coola Valley	16.86	(59)
083	Central Coast	15.17	(31)
054	Smithers	14.97	(281)
060	Peace River North	14.35	(441)
081	Fort Nelson	14.26	(94)

All of the above LHAs, with the exception of Central Coast, were also among the five LHAs with the highest live birth rates for the five-year period 1995–1999 (Appendix 3).

- The five LHAs with the lowest live birth rates in 1999 (actual numbers in parentheses) were:

045	West Vancouver–Bowen Is.	6.24	(308)
063	Saanich	6.45	(389)
064	Gulf Islands	6.45	(94)
069	Qualicum	6.60	(264)
017	Princeton	6.88	(36)

All of the above, except Princeton, were among the five LHAs with the lowest live birth rates for 1995–1999 (Appendix 3).

TABLE 11
LIVE BIRTHS BY AGE OF FATHER, AGE OF MOTHER AND OUT-OF-WEDLOCK
BRITISH COLUMBIA, 1999

Age of Father	Age of Mother (in Years)									Total	Percent
	<15	15–19	20–24	25–29	30–34	35–39	40–44	45+	N.S.		
<15	1	2	–	–	–	–	–	–	–	3	0.0
15–19	10	432	87	5	1	–	–	–	–	535	1.3
20–24	2	700	2,059	505	82	14	1	–	–	3,363	8.1
25–29	–	220	2,683	4,840	1,252	186	20	1	–	9,202	22.0
30–34	–	79	864	4,490	5,823	1,148	76	1	–	12,481	29.9
35–39	–	18	294	1,422	4,028	2,933	277	6	–	8,978	21.5
40–44	–	4	76	347	992	1,349	419	4	–	3,191	7.6
45+	–	2	29	111	311	511	220	24	–	1,208	2.9
N.S.	7	528	892	633	427	220	66	5	–	2,778	6.7
TOTAL	**20**	**1,985**	**6,984**	**12,353**	**12,916**	**6,361**	**1,079**	**41**	**–**	**41,739**	
Percent	**0.0**	**4.8**	**16.7**	**29.6**	**30.9**	**15.2**	**2.6**	**0.1**	**–**		**100.0**
Out-of-Wedlock	**17**	**1,600**	**3,202**	**2,484**	**1,831**	**968**	**204**	**8**	**–**	**10,314**	

Note: Total percentage may not add up to 100 due to rounding.
Out-of-Wedlock denotes mother and father of child were not legally married to each other and excludes 1,922 cases where marital status was not stated.
Non-residents are excluded. N.S. – Not Stated.

HIGHLIGHTS TO TABLE 11

- Out of 100 live births in 1999:
  - 5 were to teenage mothers, less than 20 years old (2,005)
  - 46 were to mothers 20 to 29 years old (19,337)
  - 46 were to mothers 30 to 39 years old (19,277)
  - 3 were to mothers 40 years of age or older (1,120)
- Out of 100 live births in 1999:
  - 1 was to a teenage father, less than 20 years old (538)
  - 30 were to fathers 20 to 29 years old (12,565)
  - 51 were to fathers 30 to 39 years old (21,459)
  - 11 were to fathers 40 years of age or older (4,399)
  - 7 did not include father's age (2,778)
- There were 445 births (1.1% of live births) where both parents were teenagers (less than 20 years of age), and another 1,118 births where only one of the parents was known to be a teenager (2.7%).
- There were 667 births (1.6%) where both parents were 40 years of age or older, and another 4,114 births where only one of the parents was known to be 40 years or older (9.9%).
- One quarter (24.7%) of 1999 live births were reported as out-of-wedlock (10,314). The actual number of out-of-wedlock births may be even higher since the percentages exclude births where it was not known if the parents were married to each other.

TABLE 11
LIVE BIRTHS BY AGE OF FATHER, AGE OF MOTHER AND OUT-OF-WEDLOCK
BRITISH COLUMBIA, 1999

Age of Father	Age of Mother (in Years)									Total	Percent
	<15	15–19	20–24	25–29	30–34	35–39	40–44	45+	N.S.		
<15	1	2	–	–	–	–	–	–	–	3	0.0
15–19	10	432	87	5	1	–	–	–	–	535	1.3
20–24	2	700	2,059	505	82	14	1	–	–	3,363	8.1
25–29	–	220	2,683	4,840	1,252	186	20	1	–	9,202	22.0
30–34	–	79	864	4,490	5,823	1,148	76	1	–	12,481	29.9
35–39	–	18	294	1,422	4,028	2,933	277	6	–	8,978	21.5
40–44	–	4	76	347	992	1,349	419	4	–	3,191	7.6
45+	–	2	29	111	311	511	220	24	–	1,208	2.9
N.S.	7	528	892	633	427	220	66	5	–	2,778	6.7
TOTAL	**20**	**1,985**	**6,984**	**12,353**	**12,916**	**6,361**	**1,079**	**41**	**–**	**41,739**	
Percent	**0.0**	**4.8**	**16.7**	**29.6**	**30.9**	**15.2**	**2.6**	**0.1**	**–**		**100.0**
Out-of-Wedlock	**17**	**1,600**	**3,202**	**2,484**	**1,831**	**968**	**204**	**8**	**–**	**10,314**	

Note: Total percentage may not add up to 100 due to rounding.
Out-of-Wedlock denotes mother and father of child were not legally married to each other and excludes 1,922 cases where marital status was not stated.
Non-residents are excluded. N.S. – Not Stated.

HIGHLIGHTS TO TABLE 11

- Out of 100 live births in 1999:
  - 5 were to teenage mothers, less than 20 years old (2,005)
  - 46 were to mothers 20 to 29 years old (19,337)
  - 46 were to mothers 30 to 39 years old (19,277)
  - 3 were to mothers 40 years of age or older (1,120)
- Out of 100 live births in 1999:
  - 1 was to a teenage father, less than 20 years old (538)
  - 30 were to fathers 20 to 29 years old (12,565)
  - 51 were to fathers 30 to 39 years old (21,459)
  - 11 were to fathers 40 years of age or older (4,399)
  - 7 did not include father's age (2,778)
- There were 445 births (1.1% of live births) where both parents were teenagers (less than 20 years of age), and another 1,118 births where only one of the parents was known to be a teenager (2.7%).
- There were 667 births (1.6%) where both parents were 40 years of age or older, and another 4,114 births where only one of the parents was known to be 40 years or older (9.9%).
- One quarter (24.7%) of 1999 live births were reported as out-of-wedlock (10,314). The actual number of out-of-wedlock births may be even higher since the percentages exclude births where it was not known if the parents were married to each other.

LIVE BIRTH FERTILITY RATES BY LOCAL HEALTH AREA

Local Health Area		1994–1998 Teenage Fertility Rate (15–19 yrs) Observed	ASFR[1]	(p)	1999 ASFR[1] 15–19	20–24	25–29	30–34	35–39	40–44	TFR[2] Rate	(p)
001	Fernie	68	22.20		13.31	61.40	88.89	64.08	12.59	2.54	1,214.11	
002	Cranbrook	115	24.85	*	24.02	77.09	96.94	67.62	17.27	1.92	1,424.32	
003	Kimberley	28	17.97		13.03	50.39	104.97	66.12	22.99	7.41	1,324.50	
004	Windermere	27	20.91		14.04	76.31	74.73	61.73	22.47	4.72	1,270.00	
005	Creston	66	38.28	*	50.85	137.93	146.62	91.46	28.08	6.44	2,306.87	*
006/007	Kootenay Lake/Nelson	93	18.03		6.81	61.18	129.03	61.92	28.71	2.91	1,452.76	
009	Castlegar	44	17.64		16.36	49.77	99.03	81.78	24.69	1.75	1,366.93	
010	Arrow Lakes	27	32.57	*	23.12	112.68	75.76	100.00	18.87	10.26	1,703.40	
011	Trail	45	12.82	*	13.08	48.60	117.77	84.30	31.18	2.03	1,484.78	
012/013	Grand Forks/Kettle Valley	42	22.13		13.10	75.27	160.92	49.38	13.57	1.86	1,570.50	
014	Southern Okanagan	41	17.82		16.19	70.92	125.98	70.62	34.54	4.98	1,616.21	
015	Penticton	169	29.81	*	21.70	67.37	107.07	64.66	28.57	5.59	1,474.83	
016	Keremeos	25	40.78	*	20.55	108.91	102.56	100.00	24.39	13.99	1,852.00	
017	Princeton	22	29.81		18.75	102.36	118.81	29.20	14.71	4.74	1,442.83	
018	Golden	34	25.56		29.90	98.43	63.03	87.54	13.51	5.08	1,487.41	
019	Revelstoke	33	20.47		18.75	87.96	61.98	54.91	29.85	–	1,267.30	
020	Salmon Arm	97	19.85		6.96	79.80	104.50	71.98	19.46	5.97	1,443.35	
021	Armstrong–Spallumcheen	33	18.52		9.01	84.25	150.26	80.42	22.99	2.21	1,745.66	
022	Vernon	225	23.27	*	16.81	56.05	125.71	84.95	25.28	5.61	1,572.07	*
023	Central Okanagan	411	18.93		16.93	61.94	97.10	79.33	30.71	3.48	1,447.44	
024	Kamloops	393	21.76	*	12.12	50.85	94.63	73.61	22.54	4.38	1,290.64	*
025	100 Mile House	52	19.90		17.96	73.11	112.30	69.20	29.41	1.46	1,517.23	
026	North Thompson	28	29.66		27.78	66.67	78.01	67.87	27.03	8.70	1,380.27	
027	Cariboo–Chilcotin	192	33.07	*	31.71	87.57	119.45	70.59	27.87	3.02	1,701.02	*
028	Quesnel	169	32.35	*	31.37	98.89	94.84	84.85	14.79	6.79	1,657.58	*
029	Lillooet	28	31.15	*	65.22	103.45	137.68	78.43	37.34	–	2,110.61	*
030	South Cariboo	61	45.35	*	19.35	77.67	109.20	69.67	23.18	6.60	1,528.36	
031	Merritt	84	40.66	*	24.34	63.83	79.67	54.05	22.30	6.02	1,251.10	
032	Hope	64	44.94	*	31.65	90.91	90.91	85.37	20.47	–	1,596.49	
033	Chilliwack	376	34.88	*	24.13	90.31	134.75	90.49	28.51	2.97	1,855.76	*
034	Abbotsford	398	21.84	*	22.39	97.89	138.64	91.42	28.90	5.96	1,926.01	*
035	Langley	216	11.65	*	10.56	51.27	134.94	101.63	32.69	5.31	1,682.06	*
036	Surrey	890	16.96	*	16.76	80.87	126.83	106.81	39.73	6.32	1,886.62	*
037	Delta	155	8.67	*	5.23	40.09	112.85	118.68	42.34	6.24	1,627.15	*
038	Richmond	156	5.79	*	3.72	22.65	70.59	93.18	44.02	7.44	1,207.99	*
040	New Westminster	150	26.45	*	27.94	52.91	65.46	70.83	46.24	10.65	1,370.21	
041	Burnaby	328	11.89	*	11.41	33.29	64.16	87.06	47.11	8.37	1,257.01	*
042	Maple Ridge	203	17.49		12.39	57.21	142.44	89.69	32.11	4.26	1,690.52	*
043	Coquitlam	275	9.73	*	8.63	39.30	97.31	101.22	42.87	6.40	1,478.64	*
044	North Vancouver	103	5.57	*	2.05	22.44	72.19	108.73	55.16	8.84	1,347.05	
045	West Vancouver–Bowen Is.	13	1.69	*	1.27	3.90	46.15	117.97	64.20	12.23	1,228.64	*
046	Sunshine Coast	61	17.11		6.72	60.61	116.44	73.04	36.76	3.42	1,484.93	
047	Powell River	104	32.56	*	16.17	41.00	97.71	71.43	30.67	3.55	1,302.67	
048	Howe Sound	91	20.99		19.16	40.20	69.24	109.81	38.38	4.76	1,407.78	
049	Bella Coola Valley	38	70.63	*	58.39	166.67	137.93	129.77	12.74	–	2,527.51	*
050	Queen Charlotte	32	43.54	*	24.69	102.56	76.92	63.49	28.99	4.15	1,504.03	
051	Snow Country	7	34.48		62.50	57.14	76.92	100.00	–	–	1,482.83	
052	Prince Rupert	168	49.05	*	33.66	99.84	92.31	54.72	19.32	9.15	1,545.00	
053	Upper Skeena	67	58.46	*	55.56	99.01	87.18	60.15	16.26	–	1,590.78	
054	Smithers	113	32.88	*	21.45	92.36	178.10	93.71	25.11	10.45	2,105.91	*
055/093	Burns Lake/Eutsuk	55	34.42	*	30.49	73.17	123.97	65.22	23.10	7.78	1,618.64	
056	Nechako	185	48.52	*	23.05	108.85	127.66	70.13	17.95	7.27	1,774.51	*
057	Prince George	555	28.15	*	16.84	73.56	100.74	70.18	20.46	1.71	1,417.40	
059	Peace River South	203	39.76	*	27.13	104.53	105.86	51.50	17.58	4.17	1,553.85	
060	Peace River North	198	36.07	*	28.62	126.33	120.00	66.46	24.29	4.08	1,848.90	*
061	Greater Victoria	489	17.42		12.63	41.57	55.48	75.36	34.04	5.31	1,121.95	*
062	Sooke	125	15.09	*	15.50	57.92	135.66	88.93	24.92	2.33	1,626.29	*
063	Saanich	85	10.07	*	10.33	30.20	78.70	102.49	36.91	4.57	1,316.00	
064	Gulf Islands	17	10.11	*	15.87	58.02	85.82	84.11	28.70	10.80	1,416.63	
065	Cowichan	227	25.77	*	25.59	64.56	122.32	77.43	28.33	3.82	1,610.26	*
066	Lake Cowichan	24	20.19		11.36	101.60	104.90	76.19	21.13	10.60	1,628.90	
067	Ladysmith	95	37.45	*	29.57	99.51	126.72	101.51	18.64	1.45	1,887.04	*
068	Nanaimo	343	23.67	*	19.69	59.95	88.06	77.14	24.26	4.43	1,367.66	
069	Qualicum	65	14.45	*	13.08	67.84	91.15	75.38	30.41	3.87	1,408.59	
070	Alberni	231	39.12	*	30.14	62.50	123.42	71.01	18.59	5.67	1,556.62	
071	Courtenay	198	21.56		20.34	65.31	110.22	80.79	25.67	4.37	1,533.52	
072/084	Campbell River/V.I. West	227	28.61	*	15.70	73.83	115.81	72.08	19.18	1.42	1,490.07	
075	Mission	166	26.65	*	26.50	98.28	156.60	85.57	32.48	4.60	2,020.12	*
076	Agassiz–Harrison	48	44.99	*	35.57	115.00	120.22	64.22	13.56	3.34	1,759.58	
077	Summerland	20	11.52	*	2.38	54.35	139.66	139.01	27.40	4.10	1,834.51	*
078	Enderby	29	24.89		19.17	81.97	121.79	68.09	14.33	6.06	1,557.02	
080	Kitimat	70	26.52	*	26.00	70.80	131.28	68.23	24.91	5.03	1,631.26	
081	Fort Nelson	57	48.72	*	41.51	97.17	115.76	57.51	12.94	3.47	1,641.78	
083	Central Coast	18	58.44	*	27.03	213.11	44.94	102.56	19.80	30.30	2,188.77	
085	Vancouver Island North	138	47.82	*	56.36	82.61	108.30	53.89	20.41	–	1,607.88	
087/094	Stikine/Telegraph Creek	17	50.60	*	–	89.29	109.59	61.86	34.88	–	1,478.07	
088	Terrace	174	40.43	*	19.93	72.90	102.65	84.58	33.98	6.40	1,602.22	*
092	Nishga	23	63.54	*	40.40	74.07	113.64	57.97	–	–	1,430.43	
161	Vancouver City Centre	23	4.27	*	1.51	8.70	19.05	38.48	31.42	7.66	534.14	*
162	Vancouver Downtown E. Side	129	27.66	*	21.62	41.67	45.42	54.63	33.22	9.63	1,030.91	*
163	Vancouver North East	181	13.44	*	12.33	37.86	91.18	90.89	47.40	9.44	1,445.44	
164	Vancouver West Side	21	1.24	*	1.89	7.74	30.58	73.13	63.66	13.19	950.98	*
165	Vancouver Midtown	148	14.04	*	13.43	42.71	58.78	74.14	55.50	16.17	1,303.64	*
166	Vancouver South	174	8.83	*	10.44	37.50	73.87	87.59	54.32	9.42	1,365.71	
039	**VANCOUVER TOTAL**	**702**	**9.93**	*	**8.88**	**24.82**	**47.13**	**68.03**	**48.93**	**11.13**	**1,044.60**	*
	PROVINCIAL TOTAL	**11,470**	**18.83**		**15.18**	**53.59**	**87.95**	**83.69**	**35.84**	**6.26**	**1,412.54**	

Note: [1] Age-Specific Fertility Rate (ASFR): Live births per 1,000 women in each specific age group of childbearing age.
[2] Total Fertility Rate (TFR): Sum of age-specific (15 to 44 years) fertility rates multiplied by the number of years in each age group (see glossary for definition). * Statistical testing indicates that fertility rate is significantly different from the average rate ($p<0.05$, two tailed).
LHA 039 Vancouver Total may include unspecified Vancouver addresses. Non-residents and unknown LHA are excluded.

LIVE BIRTH FERTILITY RATES BY LOCAL HEALTH AREA

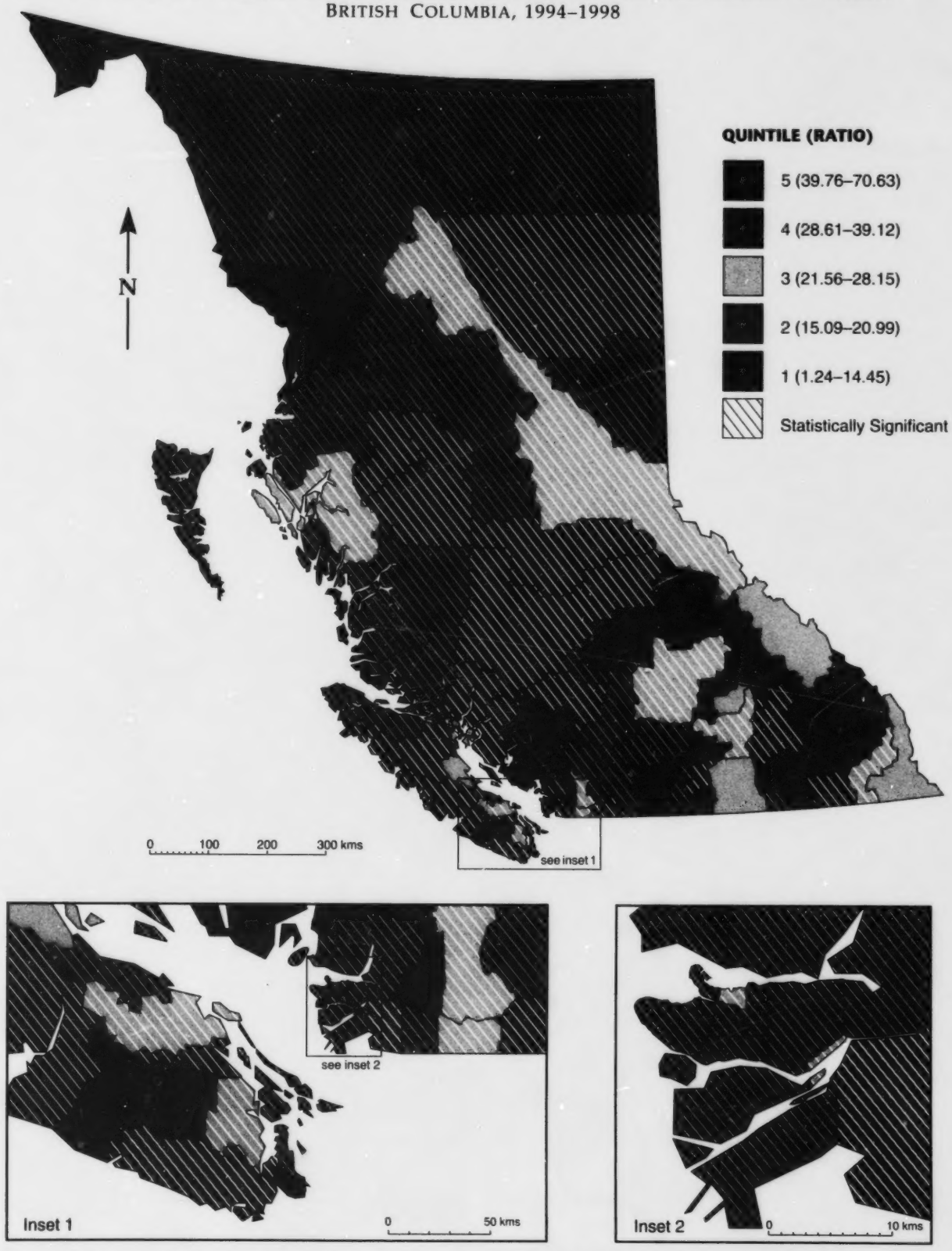
Local Health Area		1994–1998 Teenage Fertility Rate (15–19 yrs) Observed	ASFR[1]	(p)	1999 ASFR[1] 15–19	20–24	25–29	30–34	35–39	40–44	TFR[2] Rate	(p)
001	Fernie	68	22.20		13.31	61.40	88.89	64.08	12.59	2.54	1,214.11	
002	Cranbrook	115	24.85	*	24.02	77.09	96.94	67.62	17.27	1.92	1,424.32	
003	Kimberley	28	17.97		13.03	50.39	104.97	66.12	22.99	7.41	1,324.50	
004	Windermere	27	20.91		14.04	76.31	74.73	61.73	22.47	4.72	1,270.00	
005	Creston	66	38.28	*	50.85	137.93	146.62	91.46	28.08	6.44	2,306.87	*
006/007	Kootenay Lake/Nelson	93	18.03		6.81	61.18	129.03	61.92	28.71	2.91	1,452.76	
009	Castlegar	44	17.64		16.36	49.77	99.03	81.78	24.69	1.75	1,366.93	
010	Arrow Lakes	27	32.57	*	23.12	112.68	75.76	100.00	18.87	10.26	1,703.40	
011	Trail	45	12.82	*	13.08	48.60	117.77	84.30	31.18	2.03	1,484.78	
012/013	Grand Forks/Kettle Valley	42	22.13		13.10	75.27	160.92	49.38	13.57	1.86	1,570.50	
014	Southern Okanagan	41	17.82		16.19	70.92	125.98	70.62	34.54	4.98	1,616.21	
015	Penticton	169	29.81	*	21.70	67.37	107.07	64.66	28.57	5.59	1,474.83	
016	Keremeos	25	40.78	*	20.55	108.91	102.56	100.00	24.39	13.99	1,852.00	
017	Princeton	22	29.81		18.75	102.36	118.81	29.20	14.71	4.74	1,442.83	
018	Golden	34	25.56		29.90	98.43	63.03	87.54	13.51	5.08	1,487.41	
019	Revelstoke	33	20.47		18.75	87.96	61.98	54.91	29.85	–	1,267.30	
020	Salmon Arm	97	19.85		6.96	79.80	104.50	71.98	19.46	5.97	1,443.35	
021	Armstrong–Spallumcheen	33	18.52		9.01	84.25	150.26	80.42	22.99	2.21	1,745.66	
022	Vernon	225	23.27	*	16.81	56.05	125.71	84.95	25.28	5.61	1,572.07	*
023	Central Okanagan	411	18.93		16.93	61.94	97.10	79.33	30.71	3.48	1,447.44	
024	Kamloops	393	21.76	*	12.12	50.85	94.63	73.61	22.54	4.38	1,290.64	*
025	100 Mile House	52	19.90		17.96	73.11	112.30	69.20	29.41	1.46	1,517.23	
026	North Thompson	28	29.66		27.78	66.67	78.01	67.87	27.03	8.70	1,380.27	
027	Cariboo–Chilcotin	192	33.07	*	31.71	87.57	119.45	70.59	27.87	3.02	1,701.02	*
028	Quesnel	169	32.35	*	31.37	98.89	94.84	84.85	14.79	6.79	1,657.58	*
029	Lillooet	28	31.15	*	65.22	103.45	137.68	78.43	37.34	–	2,110.61	*
030	South Cariboo	61	45.35	*	19.35	77.67	109.20	69.67	23.18	6.60	1,528.36	
031	Merritt	84	40.66	*	24.34	63.83	79.67	54.05	22.30	6.02	1,251.10	
032	Hope	64	44.94	*	31.65	90.91	90.91	85.37	20.47	–	1,596.49	
033	Chilliwack	376	34.88	*	24.13	90.31	134.75	90.49	28.51	2.97	1,855.76	*
034	Abbotsford	398	21.84	*	22.39	97.89	138.64	91.42	28.90	5.96	1,926.01	*
035	Langley	216	11.65	*	10.56	51.27	134.94	101.63	32.69	5.31	1,682.06	*
036	Surrey	890	16.96	*	16.76	80.87	126.83	106.81	39.73	6.32	1,886.62	*
037	Delta	155	8.67	*	5.23	40.09	112.85	118.68	42.34	6.24	1,627.15	*
038	Richmond	156	5.79	*	3.72	22.65	70.59	93.18	44.02	7.44	1,207.99	*
040	New Westminster	150	26.45	*	27.94	52.91	65.46	70.83	46.24	10.65	1,370.21	
041	Burnaby	328	11.89	*	11.41	33.29	64.16	87.06	47.11	8.37	1,257.01	*
042	Maple Ridge	203	17.49		12.39	57.21	142.44	89.69	32.11	4.26	1,690.52	*
043	Coquitlam	275	9.73	*	8.63	39.30	97.31	101.22	42.87	6.40	1,478.64	*
044	North Vancouver	103	5.57	*	2.05	22.44	72.19	108.73	55.16	8.84	1,347.05	
045	West Vancouver–Bowen Is.	13	1.69	*	1.27	3.90	46.15	117.97	64.20	12.23	1,228.64	*
046	Sunshine Coast	61	17.11		6.72	60.61	116.44	73.04	36.76	3.42	1,484.93	
047	Powell River	104	32.56	*	16.17	41.00	97.71	71.43	30.67	3.55	1,302.67	
048	Howe Sound	91	20.99		19.16	40.20	69.24	109.81	38.38	4.76	1,407.78	
049	Bella Coola Valley	38	70.63	*	58.39	166.67	137.93	129.77	12.74	–	2,527.51	*
050	Queen Charlotte	32	43.54	*	24.69	102.56	76.92	63.49	28.99	4.15	1,504.03	
051	Snow Country	7	34.48		62.50	57.14	76.92	100.00	–	–	1,482.83	
052	Prince Rupert	168	49.05	*	33.66	99.84	92.31	54.72	19.32	9.15	1,545.00	
053	Upper Skeena	67	58.46	*	55.56	99.01	87.18	60.15	16.26	–	1,590.78	
054	Smithers	113	32.88	*	21.45	92.36	178.10	93.71	25.11	10.45	2,105.91	*
055/093	Burns Lake/Eutsuk	55	34.42	*	30.49	73.17	123.97	65.22	23.10	7.78	1,618.64	
056	Nechako	185	48.52	*	23.05	108.85	127.66	70.13	17.95	7.27	1,774.51	*
057	Prince George	555	28.15	*	16.84	73.56	100.74	70.18	20.46	1.71	1,417.40	
059	Peace River South	203	39.76	*	27.13	104.53	105.86	51.50	17.58	4.17	1,553.85	
060	Peace River North	198	36.07	*	28.62	126.33	120.00	66.46	24.29	4.08	1,848.90	*
061	Greater Victoria	489	17.42		12.63	41.57	55.48	75.36	34.04	5.31	1,121.95	*
062	Sooke	125	15.09	*	15.50	57.92	135.66	88.93	24.92	2.33	1,626.29	*
063	Saanich	85	10.07	*	10.33	30.20	78.70	102.49	36.91	4.57	1,316.00	
064	Gulf Islands	17	10.11	*	15.87	58.02	85.82	84.11	28.70	10.80	1,416.63	
065	Cowichan	227	25.77	*	25.59	64.56	122.32	77.43	28.33	3.82	1,610.26	*
066	Lake Cowichan	24	20.19		11.36	101.60	104.90	76.19	21.13	10.60	1,628.90	
067	Ladysmith	95	37.45	*	29.57	99.51	126.72	101.51	18.64	1.45	1,887.04	*
068	Nanaimo	343	23.67	*	19.69	59.95	88.06	77.14	24.26	4.43	1,367.66	
069	Qualicum	65	14.45	*	13.08	67.84	91.15	75.38	30.41	3.87	1,408.59	
070	Alberni	231	39.12	*	30.14	62.50	123.42	71.01	18.59	5.67	1,556.62	
071	Courtenay	198	21.56		20.34	65.31	110.22	80.79	25.67	4.37	1,533.52	
072/084	Campbell River/V.I. West	227	28.61	*	15.70	73.83	115.81	72.08	19.18	1.42	1,490.07	
075	Mission	166	26.65	*	26.50	98.28	156.60	85.57	32.48	4.60	2,020.12	*
076	Agassiz–Harrison	48	44.99	*	35.57	115.00	120.22	64.22	13.56	3.34	1,759.58	
077	Summerland	20	11.52	*	2.38	54.35	139.66	139.01	27.40	4.10	1,834.51	*
078	Enderby	29	24.89		19.17	81.97	121.79	68.09	14.33	6.06	1,557.02	
080	Kitimat	70	26.52	*	26.00	70.80	131.28	68.23	24.91	5.03	1,631.26	
081	Fort Nelson	57	48.72	*	41.51	97.17	115.76	57.51	12.94	3.47	1,641.78	
083	Central Coast	18	58.44	*	27.03	213.11	44.94	102.56	19.80	30.30	2,188.77	
085	Vancouver Island North	138	47.82	*	56.36	82.61	108.30	53.89	20.41	–	1,607.88	
087/094	Stikine/Telegraph Creek	17	50.60	*	–	89.29	109.59	61.86	34.88	–	1,478.07	
088	Terrace	174	40.43	*	19.93	72.90	102.65	84.58	33.98	6.40	1,602.22	*
092	Nishga	23	63.54	*	40.40	74.07	113.64	57.97	–	–	1,430.43	
161	Vancouver City Centre	23	4.27	*	1.51	8.70	19.05	38.48	31.42	7.66	534.14	*
162	Vancouver Downtown E. Side	129	27.66	*	21.62	41.67	45.42	54.63	33.22	9.63	1,030.91	*
163	Vancouver North East	181	13.44	*	12.33	37.86	91.18	90.89	47.40	9.44	1,445.44	
164	Vancouver West Side	21	1.24	*	1.89	7.74	30.58	73.13	63.66	13.19	950.98	*
165	Vancouver Midtown	148	14.04	*	13.43	42.71	58.78	74.14	55.50	16.17	1,303.64	*
166	Vancouver South	174	8.83	*	10.44	37.50	73.87	87.59	54.32	9.42	1,365.71	
039	**VANCOUVER TOTAL**	702	9.93	*	8.88	24.82	47.13	68.03	48.93	11.13	1,044.60	*
	PROVINCIAL TOTAL	11,470	18.83		15.18	53.59	87.95	83.69	35.84	6.26	1,412.54	

Note: [1] Age-Specific Fertility Rate (ASFR): Live births per 1,000 women in each specific age group of childbearing age.
[2] Total Fertility Rate (TFR): Sum of age-specific (15 to 44 years) fertility rates multiplied by the number of years in each age group (see glossary for definition). * Statistical testing indicates that fertility rate is significantly different from the average rate ($p<0.05$, two tailed).
LHA 039 Vancouver Total may include unspecified Vancouver addresses. Non-residents and unknown LHA are excluded.

FIGURE 10

LIVE BIRTH TEENAGE FERTILITY RATES BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1994–1998



Note: ASFR – Age-Specific Fertility Rate – Live births per 1,000 women age 15 to 19 years. Refer to Figure 1 to clarify geographical location of Local Health Areas.

HIGHLIGHTS TO TABLE 12/FIGURE 10

- The province's 1999 Total Fertility Rate (TFR) was 1,412.54 births per 1,000 women of child bearing age (15 to 44 years of age). As shown in Table 3, Trends of Total Fertility Rates, this was the lowest rate in the last fifty years. (See definition of total fertility rate in Glossary.)
- There were 22 Local Health Areas (LHAs) with statistically significant TFRs which were higher than the Provincial TFR in 1999. The five highest were:

049	Bella Coola Valley	2,527.51
005	Creston	2,306.87
029	Lillooet	2,110.61
054	Smithers	2,105.91
075	Mission	2,020.12

- There were 9 LHAs with statistically significant TFRs which were lower than the Provincial TFR in 1999. The five lowest were:

161	Vancouver City Centre	534.14
164	Vancouver West Side	950.98
162	Vancouver Downtown E. Side	1,030.91
061	Greater Victoria	1,121.95
038	Richmond	1,207.99

- There were 15.18 live births per 1,000 young women in the 15–19 age group in 1999. This age-specific fertility rate for 1999 was lower than the 1994–1998 teenage fertility rate of 18.83.
- For the 1994–1998 period, there were 42 LHAs with statistically significant teenage fertility rates which were higher than the provincial teenage fertility rate. The five LHAs with the highest statistically significant rates (number of births in parentheses) were:

049	Bella Coola Valley	70.63	(38)
092	Nishga	63.54	(23)
053	Upper Skeena	58.46	(67)
083	Central Coast	58.44	(18)
087/094	Stikine/Telegraph Creek	50.60	(17)

  The only LHAs which were among the five highest teenage fertility rates in both 1994 to 1998 and 1999 were Bella Coola Valley and Upper Skeena.

- There were 19 LHAs in the 1994–1998 period with statistically significant teenage fertility rates which were lower than the provincial teenage fertility rate. The five LHAs with the lowest statistically significant rates (number of births in parentheses) were:

164	Vancouver West Side	1.24	(21)
045	West Vancouver–Bowen Is.	1.69	(13)
161	Vancouver City Centre	4.27	(23)
044	North Vancouver	5.57	(103)
038	Richmond	5.79	(156)

  All above LHAs except Richmond were also among the five LHAs with the lowest teenage fertility rates in 1999.

VITAL STATISTICS INFORMATION BOX

THE HEALTH STATUS REGISTRY

The Vital Statistics Agency is involved in a number of projects concerning the incidence of birth defects and the prevalence of handicapping conditions. The Health Status Registry (HSR) can provide data to assist in response to concerns about perceived clusters of birth defects and to assess the effectiveness of screening programs and prevention activities.

The Health Status Registry is dependent upon complete and timely reporting of congenital anomalies, genetic conditions, and selected disabilities and handicapping conditions. Birth and death records, hospitals, health regions, and Medical Genetics departments provide information. Multiple reporting sources are an integral part of this kind of database. Reports on the same individual from different sources, or at different times, update and correct existing information, thus improving its accuracy and relevance. Although historically data were collected from voluntary reporting sources, reporting is now mandatory under the *Health Act* (section 10). In recent years, the Agency has undertaken initiatives to improve HSR data quality.

The Agency has produced statistical summary reports for the HSR which present registrable conditions based on year of birth or by region of current residence. An updated HSR report will be released in the fall of 2000.

CONGENITAL ANOMALIES FOR TOTAL BIRTHS (LIVE BIRTHS AND STILLBIRTHS) REPORTED TO THE HSR

Diagnosis / ICD Code(s)	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	Total
Nervous System Defects 740–742	**130**	**137**	**119**	**147**	**122**	**149**	**197**	**188**	**142**	**124**	**1,455**
anencephalus & similar defects 740.0–740.2	13	9	8	11	5	11	14	8	7	4	90
neural tube defects 741.0, 741.9, 742.0	60	55	38	71	36	36	34	43	26	30	429
hydrocephalus 742.3	18	39	22	10	17	25	30	24	14	13	212
Anomalies of Eye 743	**31**	**51**	**42**	**26**	**31**	**43**	**70**	**54**	**48**	**42**	**438**
Anomalies of Ear, Face, Neck 744	**59**	**65**	**82**	**62**	**46**	**97**	**93**	**118**	**113**	**97**	**832**
Anomalies of Heart 745.0–746.9	**217**	**324**	**317**	**280**	**290**	**405**	**505**	**593**	**565**	**565**	**4,061**
transposition of great vessels 745.1	20	17	21	15	13	14	33	30	34	36	233
tetralogy of Fallot 745.2	20	23	18	20	14	13	19	18	17	20	182
ventricular septal defect 745.4	38	67	92	72	81	105	110	165	142	131	1,003
hypoplastic left heart syndrome 746.7	4	15	8	10	8	9	16	16	11	14	111
Other Circulatory System Anomalies 747.0–747.9	**134**	**172**	**165**	**165**	**149**	**285**	**357**	**513**	**471**	**435**	**2,846**
patent ductus arteriosus 747.0	52	76	55	59	52	117	165	267	245	231	1,319
Anomalies of Respiratory System 748	**62**	**72**	**91**	**62**	**55**	**73**	**73**	**109**	**99**	**77**	**773**
Cleft Palate/Cleft Lip 749.0–749.2	**98**	**132**	**111**	**107**	**100**	**117**	**91**	**125**	**136**	**126**	**1,143**
Anomalies of Upper Alimentary Tract 750	**59**	**68**	**67**	**70**	**65**	**105**	**114**	**135**	**126**	**91**	**900**
tracheoesophageal fistula/atresia/stenosis 750.3	11	17	11	10	9	20	18	10	17	14	137
pyloric stenosis 750.5	38	32	38	41	28	21	30	30	28	26	312
Other Anomalies of Digestive System 751	**72**	**67**	**70**	**82**	**64**	**72**	**100**	**104**	**100**	**105**	**836**
Anomalies of Genital Organs 752	**187**	**174**	**205**	**227**	**234**	**299**	**277**	**446**	**342**	**230**	**2,621**
Anomalies of Urinary System 753	**108**	**149**	**157**	**198**	**177**	**162**	**166**	**191**	**180**	**198**	**1,686**
renal agenesis 753.0	17	19	21	38	17	29	18	25	15	23	222
cystic kidney disease 753.1	14	18	19	25	30	15	21	40	27	27	236
Congenital Musculoskeletal Deformities 754–756	**481**	**675**	**633**	**606**	**551**	**750**	**595**	**981**	**901**	**744**	**6,917**
cong. dislocated hip 754.3	89	238	209	198	177	252	137	344	272	212	2,128
lordosis/scoliosis 754.2	3	3	1	5	4	3	0	4	2	2	27
varus, vulgus, clubfoot 754.5–754.7	97	117	114	124	129	150	123	201	195	146	1,396
polydactyly, syndactyly 755.0–755.1	61	62	63	77	58	64	53	84	79	75	676
limb reductions 755.2–755.4	14	23	33	27	16	15	30	35	28	25	246
chondro/osteo dystrophies 756.4–756.5	12	12	11	8	19	7	15	12	12	15	123
Anomalies of the Integument 757, 228.0	**68**	**66**	**59**	**82**	**69**	**178**	**94**	**159**	**159**	**96**	**1,028**
hemangioma 228.0	9	7	11	8	4	24	18	31	29	10	151
Chromosomal Anomalies 758	**88**	**111**	**112**	**110**	**92**	**121**	**133**	**163**	**169**	**139**	**1,238**
Downs syndrome 758.0	52	64	71	44	60	59	66	75	90	65	646
Multiple & Multiple System Anomalies 759.7–759.8	**46**	**44**	**50**	**45**	**32**	**68**	**55**	**49**	**62**	**55**	**506**
Other and Unspecified Anomalies 759.0–759.6,759.9	**21**	**33**	**40**	**24**	**26**	**37**	**61**	**49**	**52**	**52**	**395**
Total Diagnoses	**1,861**	**2,340**	**2,320**	**2,293**	**2,103**	**2,959**	**2,981**	**3,977**	**3,665**	**3,176**	**27,675**
Total Cases	**1,306**	**1,609**	**1,608**	**1,621**	**1,496**	**1,959**	**1,770**	**2,544**	**2,261**	**1,833**	**18,007**

VITAL STATISTICS INFORMATION BOX

THE HEALTH STATUS REGISTRY

The Vital Statistics Agency is involved in a number of projects concerning the incidence of birth defects and the prevalence of handicapping conditions. The Health Status Registry (HSR) can provide data to assist in response to concerns about perceived clusters of birth defects and to assess the effectiveness of screening programs and prevention activities.

The Health Status Registry is dependent upon complete and timely reporting of congenital anomalies, genetic conditions, and selected disabilities and handicapping conditions. Birth and death records, hospitals, health regions, and Medical Genetics departments provide information. Multiple reporting sources are an integral part of this kind of database. Reports on the same individual from different sources, or at different times, update and correct existing information, thus improving its accuracy and relevance. Although historically data were collected from voluntary reporting sources, reporting is now mandatory under the *Health Act* (section 10). In recent years, the Agency has undertaken initiatives to improve HSR data quality.

The Agency has produced statistical summary reports for the HSR which present registrable conditions based on year of birth or by region of current residence. An updated HSR report will be released in the fall of 2000.

CONGENITAL ANOMALIES FOR TOTAL BIRTHS (LIVE BIRTHS AND STILLBIRTHS) REPORTED TO THE HSR

Diagnosis / ICD Code(s)	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	Total
Nervous System Defects 740–742	**130**	**137**	**119**	**147**	**122**	**149**	**197**	**188**	**142**	**124**	**1,455**
anencephalus & similar defects 740.0–740.2	13	9	8	11	5	11	14	8	7	4	90
neural tube defects 741.0, 741.9, 742.0	60	55	38	71	36	36	34	43	26	30	429
hydrocephalus 742.3	18	39	22	10	17	25	30	24	14	13	212
Anomalies of Eye 743	**31**	**51**	**42**	**26**	**31**	**43**	**70**	**54**	**48**	**42**	**438**
Anomalies of Ear, Face, Neck 744	**59**	**65**	**82**	**62**	**46**	**97**	**93**	**118**	**113**	**97**	**832**
Anomalies of Heart 745.0–746.9	**217**	**324**	**317**	**280**	**290**	**405**	**505**	**593**	**565**	**565**	**4,061**
transposition of great vessels 745.1	20	17	21	15	13	14	33	30	34	36	233
tetralogy of Fallot 745.2	20	23	18	20	14	13	19	18	17	20	182
ventricular septal defect 745.4	38	67	92	72	81	105	110	165	142	131	1,003
hypoplastic left heart syndrome 746.7	4	15	8	10	8	9	16	16	11	14	111
Other Circulatory System Anomalies 747.0–747.9	**134**	**172**	**165**	**165**	**149**	**285**	**357**	**513**	**471**	**435**	**2,846**
patent ductus arteriosus 747.0	52	76	55	59	52	117	165	267	245	231	1,319
Anomalies of Respiratory System 748	**62**	**72**	**91**	**62**	**55**	**73**	**73**	**109**	**99**	**77**	**773**
Cleft Palate/Cleft Lip 749.0–749.2	**98**	**132**	**111**	**107**	**100**	**117**	**91**	**125**	**136**	**126**	**1,143**
Anomalies of Upper Alimentary Tract 750	**59**	**68**	**67**	**70**	**65**	**105**	**114**	**135**	**126**	**91**	**900**
tracheoesophageal fistula/atresia/stenosis 750.3	11	17	11	10	9	20	18	10	17	14	137
pyloric stenosis 750.5	38	32	38	41	28	21	30	30	28	26	312
Other Anomalies of Digestive System 751	**72**	**67**	**70**	**82**	**64**	**72**	**100**	**104**	**100**	**105**	**836**
Anomalies of Genital Organs 752	**187**	**174**	**205**	**227**	**234**	**299**	**277**	**446**	**342**	**230**	**2,621**
Anomalies of Urinary System 753	**108**	**149**	**157**	**198**	**177**	**162**	**166**	**191**	**180**	**198**	**1,686**
renal agenesis 753.0	17	19	21	38	17	29	18	25	15	23	222
cystic kidney disease 753.1	14	18	19	25	30	15	21	40	27	27	236
Congenital Musculoskeletal Deformities 754–756	**481**	**675**	**633**	**606**	**551**	**750**	**595**	**981**	**901**	**744**	**6,917**
cong. dislocated hip 754.3	89	238	209	198	177	252	137	344	272	212	2,128
lordosis/scoliosis 754.2	3	3	1	5	4	3	0	4	2	2	27
varus, vulgus, clubfoot 754.5–754.7	97	117	114	124	129	150	123	201	195	146	1,396
polydactyly, syndactyly 755.0–755.1	61	62	63	77	58	64	53	84	79	75	676
limb reductions 755.2–755.4	14	23	33	27	16	15	30	35	28	25	246
chondro/osteo dystrophies 756.4–756.5	12	12	11	8	19	7	15	12	12	15	123
Anomalies of the Integument 757, 228.0	**68**	**66**	**59**	**82**	**69**	**176**	**94**	**159**	**159**	**96**	**1,028**
hemangioma 228.0	9	7	11	8	4	24	18	31	29	10	151
Chromosomal Anomalies 758	**88**	**111**	**112**	**110**	**92**	**121**	**133**	**163**	**169**	**139**	**1,238**
Downs syndrome 758.0	52	64	71	44	60	59	66	75	90	65	646
Multiple & Multiple System Anomalies 759.7–759.8	**46**	**44**	**50**	**45**	**32**	**68**	**55**	**49**	**62**	**55**	**506**
Other and Unspecified Anomalies 759.0–759.6,759.9	**21**	**33**	**40**	**24**	**26**	**37**	**61**	**49**	**52**	**52**	**395**
Total Diagnoses	**1,861**	**2,340**	**2,320**	**2,293**	**2,103**	**2,959**	**2,981**	**3,977**	**3,665**	**3,176**	**27,675**
Total Cases	**1,306**	**1,609**	**1,608**	**1,621**	**1,496**	**1,959**	**1,770**	**2,544**	**2,261**	**1,833**	**18,007**

TABLE 13
LIVE BIRTHS BY BIRTH WEIGHT, GENDER, AND GESTATIONAL AGE
BRITISH COLUMBIA, 1999

Birth Weight (in Grams)	Gender		Gestational Age (in Weeks)						Total
	Male	Female	<20	20–27	28–36	37–41	42+	N.S.	
<500	19	11	–	28	2	–	–	–	30
500–749	29	17	–	39	7	–	–	–	46
750–999	34	30	–	51	13	–	–	–	64
1,000–1,249	46	32	–	31	47	–	–	–	78
1,250–1,499	58	49	–	3	103	1	–	–	107
1,500–1,749	82	71	–	–	146	7	–	–	153
1,750–1,999	116	124	–	–	212	28	–	–	240
2,000–2,249	227	204	–	–	313	118	–	–	431
2,250–2,499	397	435	–	–	418	414	–	–	832
2,500–2,749	830	1,013	–	–	438	1,398	7	–	1,843
2,750–2,999	1,713	2,106	–	–	408	3,397	14	–	3,819
3,000–3,249	2,953	3,544	–	–	229	6,228	40	–	6,497
3,250–3,499	4,120	4,176	–	–	98	8,114	84	–	8,296
3,500–3,749	4,166	3,709	–	–	54	7,690	131	–	7,875
3,750–3,999	3,109	2,454	–	–	21	5,395	147	–	5,563
4,000–4,249	1,993	1,330	–	–	6	3,212	105	–	3,323
4,250–4,499	1,028	575	–	–	2	1,546	55	–	1,603
4,500–4,749	426	196	–	–	2	589	31	–	622
4,750–4,999	135	71	–	–	–	196	9	1	206
5,000–5,249	36	26	–	–	1	55	6	–	62
5,250–5,499	12	13	–	–	–	25	–	–	25
5,500+	3	3	–	–	–	6	–	–	6
N.S.	8	10	–	–	–	–	–	18	18
TOTAL	**21,540**	**20,199**	**–**	**152**	**2,520**	**38,419**	**629**	**19**	**41,739**

Note: Non-residents are excluded.
N.S. – Not Stated.

HIGHLIGHTS TO TABLE 13

- There were 21,540 males (51.6%) and 20,199 females born in 1999. The average weight for a live born baby in 1999 was 3,432 grams; 3,480 grams for males and 3,380 grams for females.
- In 1999, almost nine out of ten live births (36,980) were delivered at term (from 37 to 41 weeks gestation) with normal birth weight (2,500 to 4,499 grams). These babies with "healthy" gestational ages and birth weights accounted for 88.6% of 1999 live births.
- There were 1,981 live births with low birth weight (less than 2,500 grams) and 2,672 pre-term (less than 37 weeks gestation) live births in 1999. A total of 1,413 babies (3.4%) were both pre-term and low birth weight; out of this group, only one in ten (152 births) was extremely premature (less than 28 weeks gestation) and had very low birth weight (less than 1,500 grams).
- Post-term (42 or more weeks of gestation) deliveries occurred in 629 births in 1999. There were 921 births with high birth weight (4,500 grams or more), 46 of which were also post-term.
- Out of approximately 1,000 live births in 1999:

by birth weight

- 47 were low birth weight (1,981 births), of which:
  - 1 had birth weight less than 500 grams (30)
  - 7 had birth weight from 500 to 1,499 grams (295)
- 930 were normal birth weight (38,819)
- 22 were high birth weight (921)

by gestational age

- 64 were preterm (2,672 births), of which:
  - 4 were extremely premature (less than 28 weeks) (152)
  - 60 were moderately premature (28–36 weeks) (2,520)
- 920 were term (38,419)
- 15 were post-term (629)

TABLE 14
LIVE BIRTHS BY BIRTH WEIGHT AND AGE OF MOTHER
BRITISH COLUMBIA, 1999

Birth Weight (in Grams)	Age of Mother (in Years)									Total
	<15	15–19	20–24	25–29	30–34	35–39	40–44	45+	N.S.	
<500	–	4	2	7	13	3	1	–	–	30
500–749	–	3	12	12	13	5	1	–	–	46
750–999	–	–	12	13	19	17	3	–	–	64
1,000–1,249	–	6	12	18	21	18	3	–	–	78
1,250–1,499	–	4	19	30	35	18	1	–	–	107
1,500–1,749	–	11	28	34	42	28	9	1	–	153
1,750–1,999	1	8	39	63	69	47	13	–	–	240
2,000–2,249	1	12	70	118	139	76	15	–	–	431
2,250–2,499	1	40	128	209	270	150	32	2	–	832
2,500–2,749	1	121	324	516	533	291	56	1	–	1,843
2,750–2,999	1	186	703	1,092	1,149	581	101	6	–	3,819
3,000–3,249	2	353	1,112	1,915	1,962	985	160	8	–	6,497
3,250–3,499	4	402	1,391	2,472	2,539	1,264	217	7	–	8,296
3,500–3,749	5	357	1,312	2,449	2,382	1,172	192	6	–	7,875
3,750–3,999	1	237	899	1,676	1,792	813	140	5	–	5,563
4,000–4,249	2	144	540	971	1,087	503	73	3	–	3,323
4,250–4,499	1	62	242	478	536	239	44	1	–	1,603
4,500–4,749	–	27	96	179	206	102	11	1	–	622
4,750–4,999	–	5	29	69	68	31	4	–	–	206
5,000–5,249	–	1	7	22	23	8	1	–	–	62
5,250–5,499	–	1	4	5	10	5	–	–	–	25
5,500+	–	–	–	1	3	1	1	–	–	6
N.S.	–	1	3	4	5	4	1	–	–	18
TOTAL	**20**	**1,985**	**6,984**	**12,353**	**12,916**	**6,361**	**1,079**	**41**	**–**	**41,739**

Note: Non-residents are excluded.
N.S. – Not Stated.

HIGHLIGHTS TO TABLE 14

- There were 38,819 live births with healthy birth weights (2,500 to 4,499 grams) in 1999. Out of approximately every 100 of these births:
  - 5 were births to teenage mothers (1,879)
  - 47 were births to mothers aged 20 to 29 years (18, 092)
  - 46 were births to mothers aged 30 to 39 years (17,828)
  - 3 were births to mothers 40 years of age or older (1,020)
- There were 1,981 live births with low birth weight (less than 2,500 grams) in 1999. Out of approximately every 100 of these births:
  - 5 were births to teenage mothers (91)
  - 42 were births to mothers aged 20 and 29 years (826)
  - 50 were births to mothers aged 30 to 39 years (983)
  - 4 were births to mothers 40 years of age or older (81)
- There were 921 live births with high birth weight (4,500 grams or over) in 1999. Out of approximately every 100 of these births:
  - 4 were births to teenage mothers (34)
  - 45 were births to mothers aged 20 and 29 years (412)
  - 50 were births to mothers aged 30 to 39 years (457)
  - 2 were births to mothers 40 years of age or older (18)
- Nine out of ten (93.0%) births to mothers in the four maternal age groups from 20–24 to 35–39 had "healthy" birth weights. Approximately one in twenty-one (4.7%) of births in these age groups had low birth weight and one in forty-four (2.3%) had high birth weights.
- Of live births to teenage mothers (less than 20 years of age), 93.7% had healthy birth weights, 4.5% had low and 1.7% had high birth weights. For mothers in the 40 or older age group, 91.1% of live births had healthy birth weights, 7.2% had low and 1.6% had high birth weights.

TABLE 13
LIVE BIRTHS BY BIRTH WEIGHT, GENDER, AND GESTATIONAL AGE
BRITISH COLUMBIA, 1999

Birth Weight (in Grams)	Gender		Gestational Age (in Weeks)						Total
	Male	Female	<20	20–27	28–36	37–41	42+	N.S.	
<500	19	11	–	28	2	–	–	–	30
500–749	29	17	–	39	7	–	–	–	46
750–999	34	30	–	51	13	–	–	–	64
1,000–1,249	46	32	–	31	47	–	–	–	78
1,250–1,499	58	49	–	3	103	1	–	–	107
1,500–1,749	82	71	–	–	146	7	–	–	153
1,750–1,999	116	124	–	–	212	28	–	–	240
2,000–2,249	227	204	–	–	313	118	–	–	431
2,250–2,499	397	435	–	–	418	414	–	–	832
2,500–2,749	830	1,013	–	–	438	1,398	7	–	1,843
2,750–2,999	1,713	2,106	–	–	408	3,397	14	–	3,819
3,000–3,249	2,953	3,544	–	–	229	6,228	40	–	6,497
3,250–3,499	4,120	4,176	–	–	98	8,114	84	–	8,296
3,500–3,749	4,166	3,709	–	–	54	7,690	131	–	7,875
3,750–3,999	3,109	2,454	–	–	21	5,395	147	–	5,563
4,000–4,249	1,993	1,330	–	–	6	3,212	105	–	3,323
4,250–4,499	1,028	575	–	–	2	1,546	55	–	1,603
4,500–4,749	426	196	–	–	2	589	31	–	622
4,750–4,999	135	71	–	–	–	196	9	1	206
5,000–5,249	36	26	–	–	1	55	6	–	62
5,250–5,499	12	13	–	–	–	25	–	–	25
5,500+	3	3	–	–	–	6	–	–	6
N.S.	8	10	–	–	–	–	–	18	18
TOTAL	**21,540**	**20,199**	**–**	**152**	**2,520**	**38,419**	**629**	**19**	**41,739**

Note: Non-residents are excluded.
N.S. – Not Stated.

HIGHLIGHTS TO TABLE 13

- There were 21,540 males (51.6%) and 20,199 females born in 1999. The average weight for a live born baby in 1999 was 3,432 grams; 3,480 grams for males and 3,380 grams for females.
- In 1999, almost nine out of ten live births (36,980) were delivered at term (from 37 to 41 weeks gestation) with normal birth weight (2,500 to 4,499 grams). These babies with "healthy" gestational ages and birth weights accounted for 88.6% of 1999 live births.
- There were 1,981 live births with low birth weight (less than 2,500 grams) and 2,672 pre-term (less than 37 weeks gestation) live births in 1999. A total of 1,413 babies (3.4%) were both pre-term and low birth weight; out of this group, only one in ten (152 births) was extremely premature (less than 28 weeks gestation) and had very low birth weight (less than 1,500 grams).
- Post-term (42 or more weeks of gestation) deliveries occurred in 629 births in 1999. There were 921 births with high birth weight (4,500 grams or more), 46 of which were also post-term.
- Out of approximately 1,000 live births in 1999:

by birth weight

- 47 were low birth weight (1,981 births), of which:
  - 1 had birth weight less than 500 grams (30)
  - 7 had birth weight from 500 to 1,499 grams (295)
- 930 were normal birth weight (38,819)
- 22 were high birth weight (921)

by gestational age

- 64 were preterm (2,672 births), of which:
  - 4 were extremely premature (less than 28 weeks) (152)
  - 60 were moderately premature (28–36 weeks) (2,520)
- 920 were term (38,419)
- 15 were post-term (629)

TABLE 14
LIVE BIRTHS BY BIRTH WEIGHT AND AGE OF MOTHER
BRITISH COLUMBIA, 1999

Birth Weight (in Grams)	Age of Mother (in Years)									Total
	<15	15–19	20–24	25–29	30–34	35–39	40–44	45+	N.S.	
<500	–	4	2	7	13	3	1	–	–	30
500–749	–	3	12	12	13	5	1	–	–	46
750–999	–	–	12	13	19	17	3	–	–	64
1,000–1,249	–	6	12	18	21	18	3	–	–	78
1,250–1,499	–	4	19	30	35	18	1	–	–	107
1,500–1,749	–	11	28	34	42	28	9	1	–	153
1,750–1,999	1	8	39	63	69	47	13	–	–	240
2,000–2,249	1	12	70	118	139	76	15	–	–	431
2,250–2,499	1	40	128	209	270	150	32	2	–	832
2,500–2,749	1	121	324	516	533	291	56	1	–	1,843
2,750–2,999	1	186	703	1,092	1,149	581	101	6	–	3,819
3,000–3,249	2	353	1,112	1,915	1,962	985	160	8	–	6,497
3,250–3,499	4	402	1,391	2,472	2,539	1,264	217	7	–	8,296
3,500–3,749	5	357	1,312	2,449	2,382	1,172	192	6	–	7,875
3,750–3,999	1	237	899	1,676	1,792	813	140	5	–	5,563
4,000–4,249	2	144	540	971	1,087	503	73	3	–	3,323
4,250–4,499	1	62	242	478	536	239	44	1	–	1,603
4,500–4,749	–	27	96	179	206	102	11	1	–	622
4,750–4,999	–	5	29	69	68	31	4	–	–	206
5,000–5,249	–	1	7	22	23	8	1	–	–	62
5,250–5,499	–	1	4	5	10	5	–	–	–	25
5,500+	–	–	–	1	3	1	1	–	–	6
N.S.	–	1	3	4	5	4	1	–	–	18
TOTAL	**20**	**1,985**	**6,984**	**12,353**	**12,916**	**6,361**	**1,079**	**41**	**–**	**41,739**

Note: Non-residents are excluded.
N.S. – Not Stated.

HIGHLIGHTS TO TABLE 14

- There were 38,819 live births with healthy birth weights (2,500 to 4,499 grams) in 1999. Out of approximately every 100 of these births:
  - 5 were births to teenage mothers (1,879)
  - 47 were births to mothers aged 20 to 29 years (18, 092)
  - 46 were births to mothers aged 30 to 39 years (17,828)
  - 3 were births to mothers 40 years of age or older (1,020)
- There were 1,981 live births with low birth weight (less than 2,500 grams) in 1999. Out of approximately every 100 of these births:
  - 5 were births to teenage mothers (91)
  - 42 were births to mothers aged 20 and 29 years (826)
  - 50 were births to mothers aged 30 to 39 years (983)
  - 4 were births to mothers 40 years of age or older (81)
- There were 921 live births with high birth weight (4,500 grams or over) in 1999. Out of approximately every 100 of these births:
  - 4 were births to teenage mothers (34)
  - 45 were births to mothers aged 20 and 29 years (412)
  - 50 were births to mothers aged 30 to 39 years (457)
  - 2 were births to mothers 40 years of age or older (18)
- Nine out of ten (93.0%) births to mothers in the four maternal age groups from 20–24 to 35–39 had "healthy" birth weights. Approximately one in twenty-one (4.7%) of births in these age groups had low birth weight and one in forty-four (2.3%) had high birth weights.
- Of live births to teenage mothers (less than 20 years of age), 93.7% had healthy birth weights, 4.5% had low and 1.7% had high birth weights. For mothers in the 40 or older age group, 91.1% of live births had healthy birth weights, 7.2% had low and 1.6% had high birth weights.

TABLE 15
LOW BIRTH WEIGHT LIVE BIRTHS BY AGE OF MOTHER AND GENDER
BRITISH COLUMBIA, 1999

Age of Mother	Male		Female		Total*		
	Number	Percent	Number	Percent	Number	Percent	Rate
<15	2	0.2	1	0.1	3	0.2	++
15–19	53	5.3	35	3.6	88	4.4	44.33
20–24	166	16.5	156	16.0	322	16.3	46.11
25–29	251	24.9	253	26.0	504	25.4	40.80
30–34	307	30.5	314	32.3	621	31.3	48.08
35–39	184	18.3	178	18.3	362	18.3	56.91
40–44	45	4.5	33	3.4	78	3.9	72.29
45+	–	–	3	0.3	3	0.2	++
N.S.	–	–	–	–	–	–	–
TOTAL	**1,008**	**100.0**	**973**	**100.0**	**1,981**	**100.0**	**47.46**

Note: Rate per 1,000 live births for the specified age group.
Low birth weight denotes birth weight less than 2,500 grams.
++ Denotes the number of cases is 5 or less.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded. N.S. – Not Stated.

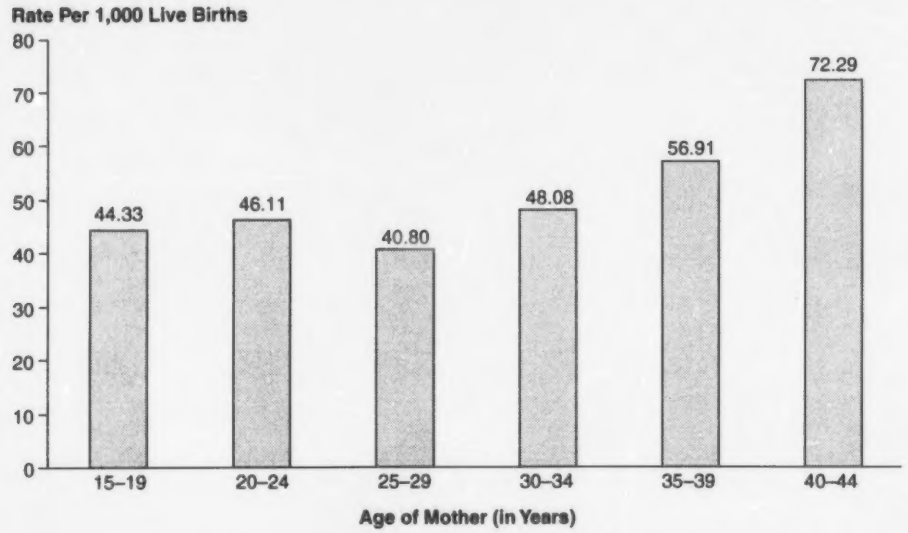
FIGURE 11
LOW BIRTH WEIGHT LIVE BIRTHS BY AGE OF MOTHER
BRITISH COLUMBIA, 1999

TABLE 15
LOW BIRTH WEIGHT LIVE BIRTHS BY AGE OF MOTHER AND GENDER
BRITISH COLUMBIA, 1999

Age of Mother	Male		Female		Total*		
	Number	Percent	Number	Percent	Number	Percent	Rate
<15	2	0.2	1	0.1	3	0.2	++
15–19	53	5.3	35	3.6	88	4.4	44.33
20–24	166	16.5	156	16.0	322	16.3	46.11
25–29	251	24.9	253	26.0	504	25.4	40.80
30–34	307	30.5	314	32.3	621	31.3	48.08
35–39	184	18.3	178	18.3	362	18.3	56.91
40–44	45	4.5	33	3.4	78	3.9	72.29
45+	–	–	3	0.3	3	0.2	++
N.S.	–	–	–	–	–	–	–
TOTAL	**1,008**	**100.0**	**973**	**100.0**	**1,981**	**100.0**	**47.46**

Note: Rate per 1,000 live births for the specified age group.
Low birth weight denotes birth weight less than 2,500 grams.
++ Denotes the number of cases is 5 or less.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded. N.S. – Not Stated.

FIGURE 11
LOW BIRTH WEIGHT LIVE BIRTHS BY AGE OF MOTHER
BRITISH COLUMBIA, 1999



HIGHLIGHTS TO TABLE 15/FIGURE 11

- In 1999, there were 1,981 live births with low birth weight (less than 2,500 grams). The provincial low birth weight (LBW) live birth rate was 47.46 per 1,000 live births in 1999.
- Among 1999 live births, 4.7% of the 21,540 male births had low birth weight (1,008) and 4.8% of the 20,199 female births had low birth weight (973).
- Of the low birth weight live births, 50.9% were males.
- Mothers aged 25–29 had the lowest LBW rates (40.80 per 1,000 live births) in 1999, followed by the 15–19 and 20–24 maternal age groups (44.33 and 46.11 low birth weight births per 1,000 births respectively). The LBW rates by maternal age groups (shown in Figure 11) does not include the less than 15 and 45 or over age groups as the number of births per group were five or less. The LBW rates by maternal age groups (shown in Figure 11) showed a steady increase from age group 25–29 to age group 40–44.

LOW BIRTH WEIGHT LIVE BIRTHS BY GESTATIONAL AGE

Local Health Area		1994–1998 Low Birth Weight Live Births				1999 Gestational Age (in Weeks)					
		Observed	Ratio	(p)	Rate	<37	37–41	42+	N.S.	Total	Rate
001	Fernie	24	0.63	*	32.21	3	2	–	–	5	38.46
002	Cranbrook	59	0.84		43.35	3	–	–	–	3	12.10
003	Kimberley	10	0.55		28.49	1	1	–	–	2	31.75
004	Windermere	23	0.99		51.00	1	–	–	–	1	12.99
005	Creston	22	0.68		35.14	3	1	–	–	4	27.40
006/007	Kootenay Lake/Nelson	64	0.91		46.61	4	4	–	–	8	32.65
009	Castlegar	44	1.31		67.28	6	2	–	–	8	65.57
010	Arrow Lakes	10	0.68		34.84	2	1	–	–	3	61.22
011	Trail	41	0.86		44.32	5	4	–	–	9	52.63
012/013	Grand Forks/Kettle Valley	28	1.03		53.13	4	1	–	–	5	53.76
014	Southern Okanagan	59	1.45	*	74.31	8	2	–	–	10	71.43
015	Penticton	102	1.05		54.11	19	1	–	–	20	59.00
016	Keremeos	15	1.21		62.24	–	1	–	–	1	25.00
017	Princeton	9	0.83		42.45	3	1	–	–	4	111.11
018	Golden	16	0.73		37.47	1	1	–	–	2	24.10
019	Revelstoke	22	0.84		42.97	4	3	–	–	7	98.59
020	Salmon Arm	64	0.93		47.73	8	4	–	–	12	49.38
021	Armstrong–Spallumcheen	26	1.11		56.89	3	1	–	–	4	44.44
022	Vernon	120	0.80	*	40.90	11	8	–	–	19	35.38
023	Central Okanagan	380	1.01		51.81	40	22	–	–	62	44.16
024	Kamloops	285	1.02		52.45	35	11	–	–	46	49.09
025	100 Mile House	45	1.13		58.21	4	3	–	–	7	50.72
026	North Thompson	6	0.40	*	20.76	–	–	–	–	–	–
027	Cariboo–Chilcotin	99	0.99		51.00	16	5	–	–	21	58.99
028	Quesnel	86	0.98		50.50	6	6	–	–	12	38.34
029	Lillooet	12	0.70		36.04	1	–	–	–	1	14.93
030	South Cariboo	33	1.47	*	75.34	2	–	–	–	2	29.85
031	Merritt	47	1.20		61.44	4	1	–	–	5	49.50
032	Hope	17	0.73		37.28	4	–	–	–	4	54.05
033	Chilliwack	235	1.02		52.63	29	6	–	–	35	40.94
034	Abbotsford	392	0.92		47.27	45	12	–	–	57	36.68
035	Langley	292	0.88	*	45.10	35	18	–	–	53	41.21
036	Surrey	1,502	1.15	*	59.20	183	85	–	–	268	55.91
037	Delta	312	1.06		54.40	32	14	–	–	46	43.07
038	Richmond	417	0.97		49.65	55	26	–	–	81	53.32
040	New Westminster	195	1.13		57.90	22	13	–	–	35	56.36
041	Burnaby	584	1.11	*	57.15	76	34	–	–	110	54.92
042	Maple Ridge	233	0.94		48.43	33	6	–	–	39	44.83
043	Coquitlam	572	0.97		49.86	82	37	–	–	119	54.79
044	North Vancouver	303	0.82	*	42.11	32	8	–	–	40	29.43
045	West Vancouver–Bowen Is.	77	0.93		47.89	13	1	–	–	14	45.45
046	Sunshine Coast	62	0.94		48.32	6	1	–	–	7	33.02
047	Powell River	40	0.75		38.46	–	–	–	–	–	–
048	Howe Sound	107	1.07		55.21	11	1	–	–	12	29.41
049	Bella Coola Valley	12	0.93		47.62	–	–	–	–	–	–
050	Queen Charlotte	23	1.04		53.49	4	–	–	–	4	65.57
051	Snow Country	4	0.99		50.63	–	2	–	–	2	200.00
052	Prince Rupert	71	0.90		46.41	5	1	–	–	6	27.52
053	Upper Skeena	21	0.94		48.17	4	2	–	–	6	82.19
054	Smithers	61	0.84		43.14	10	4	–	–	14	49.82
055/093	Burns Lake/Eutsuk	27	0.92		47.12	1	–	–	–	1	11.36
056	Nechako	54	0.72	*	37.24	12	2	–	–	14	59.83
057	Prince George	364	1.04		53.63	39	14	–	–	53	45.07
059	Peace River South	65	0.65	*	33.15	6	5	–	–	11	34.59
060	Peace River North	106	0.86		44.13	13	3	–	–	16	36.28
061	Greater Victoria	509	1.01		51.84	76	23	–	–	99	56.06
062	Sooke	149	0.91		46.77	20	10	–	–	30	53.67
063	Saanich	73	0.63	*	32.14	13	5	–	–	18	46.27
064	Gulf Islands	9	0.36	*	18.29	2	–	–	–	2	21.28
065	Cowichan	145	1.03		52.80	18	6	–	–	24	47.34
066	Lake Cowichan	19	1.12		57.75	2	1	–	–	3	48.39
067	Ladysmith	39	0.83		42.72	10	1	–	–	11	67.48
068	Nanaimo	224	0.93		47.71	26	15	–	–	41	48.29
069	Qualicum	71	0.96		49.17	8	–	–	–	8	30.30
070	Alberni	86	0.86		44.31	6	–	–	–	6	18.40
071	Courtenay	140	0.93		47.64	26	8	–	–	34	63.55
072/084	Campbell River/V.I. West	123	0.95		49.02	9	4	–	–	13	29.89
075	Mission	129	1.08		55.39	12	7	–	–	19	40.86
076	Agassiz–Harrison	17	0.80		41.36	–	1	–	–	1	13.70
077	Summerland	21	0.91		46.98	1	1	–	–	2	23.26
078	Enderby	13	0.60		30.73	1	2	–	–	3	46.88
080	Kitimat	32	0.81		41.67	3	1	–	–	4	27.97
081	Fort Nelson	30	0.99		50.68	–	1	–	–	1	10.64
083	Central Coast	9	1.21		62.07	–	–	–	–	–	–
085	Vancouver Island North	56	0.99		50.86	4	5	–	–	9	49.72
087/094	Stikine/Telegraph Creek	12	1.88		96.77	1	–	–	–	1	45.45
088	Terrace	85	0.97		49.91	12	2	–	–	14	46.67
092	Nishga	6	0.65		33.52	3	–	–	–	3	125.00
161	Vancouver City Centre	162	1.09		56.15	13	11	–	–	24	36.53
162	Vancouver Downtown E. Side	163	1.13		58.28	19	6	–	–	25	54.23
163	Vancouver North East	379	1.18	*	60.64	42	22	–	–	64	54.70
164	Vancouver West Side	233	0.92		47.08	40	14	–	–	54	51.58
165	Vancouver Midtown	377	1.23	*	63.01	55	13	–	–	68	62.73
166	Vancouver South	407	1.10		56.43	42	28	–	–	70	53.31
039	**VANCOUVER TOTAL**	1,735	1.11	*	57.19	211	94	–	–	305	53.20
	N.S.	21	–		–	–	–	–	–	–	–
	PROVINCIAL TOTAL	11,652	1.00		51.39	1,413	568	–	–	1,981	47.46

Note: Low Birth Weight – birth weight less than 2,500 grams. Ratio – observed over the expected low birth weight live births. * Statistical testing indicates that observed low birth weight live births are significantly different from the expected ($p<0.05$, two tailed). Rate per 1,000 live births in the specified area. LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not Stated. Non-residents are excluded.

LOW BIRTH WEIGHT LIVE BIRTHS BY GESTATIONAL AGE

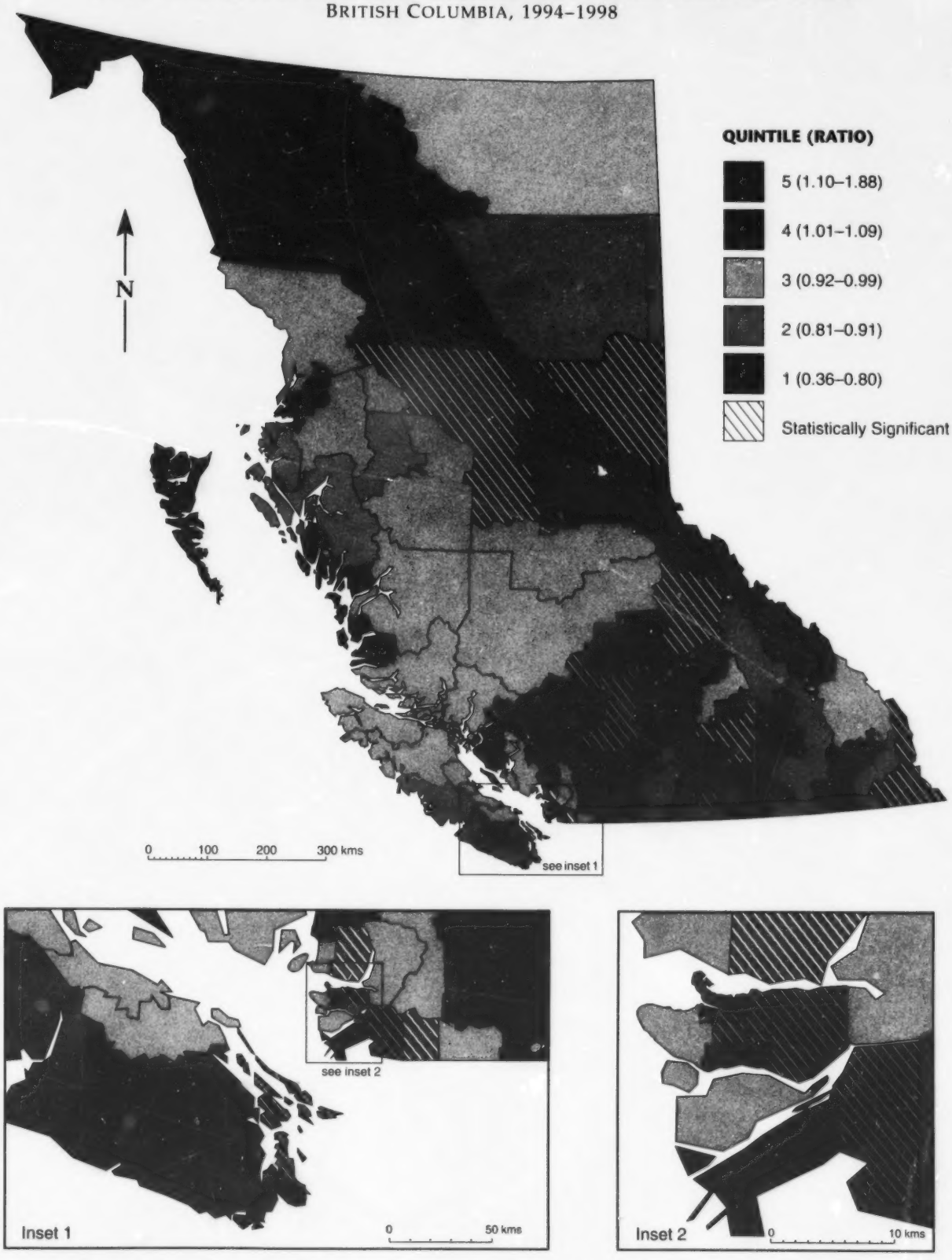
Local Health Area		1994–1998 Low Birth Weight Live Births				1999 Gestational Age (in Weeks)					
		Observed	Ratio	(p)	Rate	<37	37–41	42+	N.S.	Total	Rate
001	Fernie	24	0.63	*	32.21	3	2	–	–	5	38.46
002	Cranbrook	59	0.84		43.35	3	–	–	–	3	12.10
003	Kimberley	10	0.55		28.49	1	1	–	–	2	31.75
004	Windermere	23	0.99		51.00	1	–	–	–	1	12.99
005	Creston	22	0.68		35.14	3	1	–	–	4	27.40
006/007	Kootenay Lake/Nelson	64	0.91		46.61	4	4	–	–	8	32.65
009	Castlegar	44	1.31		67.28	6	2	–	–	8	65.57
010	Arrow Lakes	10	0.68		34.84	2	1	–	–	3	61.22
011	Trail	41	0.86		44.32	5	4	–	–	9	52.63
012/013	Grand Forks/Kettle Valley	28	1.03		53.13	4	1	–	–	5	53.76
014	Southern Okanagan	59	1.45	*	74.31	8	2	–	–	10	71.43
015	Penticton	102	1.05		54.11	19	1	–	–	20	59.00
016	Keremeos	15	1.21		62.24	–	1	–	–	1	25.00
017	Princeton	9	0.83		42.45	3	1	–	–	4	111.11
018	Golden	16	0.73		37.47	1	1	–	–	2	24.10
019	Revelstoke	22	0.84		42.97	4	3	–	–	7	98.59
020	Salmon Arm	64	0.93		47.73	8	4	–	–	12	49.38
021	Armstrong–Spallumcheen	26	1.11		56.89	3	1	–	–	4	44.44
022	Vernon	120	0.80	*	40.90	11	8	–	–	19	35.38
023	Central Okanagan	380	1.01		51.81	40	22	–	–	62	44.16
024	Kamloops	285	1.02		52.45	35	11	–	–	46	49.09
025	100 Mile House	45	1.13		58.21	4	3	–	–	7	50.72
026	North Thompson	6	0.40	*	20.76	–	–	–	–	–	–
027	Cariboo–Chilcotin	99	0.99		51.00	16	5	–	–	21	58.99
028	Quesnel	86	0.98		50.50	6	6	–	–	12	38.34
029	Lillooet	12	0.70		36.04	1	–	–	–	1	14.93
030	South Cariboo	33	1.47	*	75.34	2	–	–	–	2	29.85
031	Merritt	47	1.20		61.44	4	1	–	–	5	49.50
032	Hope	17	0.73		37.28	4	–	–	–	4	54.05
033	Chilliwack	235	1.02		52.63	29	6	–	–	35	40.94
034	Abbotsford	392	0.92		47.27	45	12	–	–	57	36.68
035	Langley	292	0.88	*	45.10	35	18	–	–	53	41.21
036	Surrey	1,502	1.15	*	59.20	183	85	–	–	268	55.91
037	Delta	312	1.06		54.40	32	14	–	–	46	43.07
038	Richmond	417	0.97		49.65	55	26	–	–	81	53.32
040	New Westminster	195	1.13		57.90	22	13	–	–	35	56.36
041	Burnaby	584	1.11	*	57.15	76	34	–	–	110	54.92
042	Maple Ridge	233	0.94		48.43	33	6	–	–	39	44.83
043	Coquitlam	572	0.97		49.86	82	37	–	–	119	54.79
044	North Vancouver	303	0.82	*	42.11	32	8	–	–	40	29.43
045	West Vancouver–Bowen Is.	77	0.93		47.89	13	1	–	–	14	45.45
046	Sunshine Coast	62	0.94		48.32	6	1	–	–	7	33.02
047	Powell River	40	0.75		38.46	–	–	–	–	–	–
048	Howe Sound	107	1.07		55.21	11	1	–	–	12	29.41
049	Bella Coola Valley	12	0.93		47.62	–	–	–	–	–	–
050	Queen Charlotte	23	1.04		53.49	4	–	–	–	4	65.57
051	Snow Country	4	0.99		50.63	–	2	–	–	2	200.00
052	Prince Rupert	71	0.90		46.41	5	1	–	–	6	27.52
053	Upper Skeena	21	0.94		48.17	4	2	–	–	6	82.19
054	Smithers	61	0.84		43.14	10	4	–	–	14	49.82
055/093	Burns Lake/Eutsuk	27	0.92		47.12	1	–	–	–	1	11.36
056	Nechako	54	0.72	*	37.24	12	2	–	–	14	59.83
057	Prince George	364	1.04		53.63	39	14	–	–	53	45.07
059	Peace River South	65	0.65	*	33.15	6	5	–	–	11	34.59
060	Peace River North	106	0.86		44.13	13	3	–	–	16	36.28
061	Greater Victoria	509	1.01		51.84	76	23	–	–	99	56.06
062	Sooke	149	0.91		46.77	20	10	–	–	30	53.67
063	Saanich	73	0.63	*	32.14	13	5	–	–	18	46.27
064	Gulf Islands	9	0.36	*	18.29	2	–	–	–	2	21.28
065	Cowichan	145	1.03		52.80	18	6	–	–	24	47.34
066	Lake Cowichan	19	1.12		57.75	2	1	–	–	3	48.39
067	Ladysmith	39	0.83		42.72	10	1	–	–	11	67.48
068	Nanaimo	224	0.93		47.71	26	15	–	–	41	48.29
069	Qualicum	71	0.96		49.17	8	–	–	–	8	30.30
070	Alberni	86	0.86		44.31	6	–	–	–	6	18.40
071	Courtenay	140	0.93		47.64	26	8	–	–	34	63.55
072/084	Campbell River/V.I. West	123	0.95		49.02	9	4	–	–	13	29.89
075	Mission	129	1.08		55.39	12	7	–	–	19	40.86
076	Agassiz–Harrison	17	0.80		41.36	–	1	–	–	1	13.70
077	Summerland	21	0.91		46.98	1	1	–	–	2	23.26
078	Enderby	13	0.60		30.73	1	2	–	–	3	46.88
080	Kitimat	32	0.81		41.67	3	1	–	–	4	27.97
081	Fort Nelson	30	0.99		50.68	–	1	–	–	1	10.64
083	Central Coast	9	1.21		62.07	–	–	–	–	–	–
085	Vancouver Island North	56	0.99		50.86	4	5	–	–	9	49.72
087/094	Stikine/Telegraph Creek	12	1.88		96.77	1	–	–	–	1	45.45
088	Terrace	85	0.97		49.91	12	2	–	–	14	46.67
092	Nishga	6	0.65		33.52	3	–	–	–	3	125.00
161	Vancouver City Centre	162	1.09		56.15	13	11	–	–	24	36.53
162	Vancouver Downtown E. Side	163	1.13		58.28	19	6	–	–	25	54.23
163	Vancouver North East	379	1.18	*	60.64	42	22	–	–	64	54.70
164	Vancouver West Side	233	0.92		47.08	40	14	–	–	54	51.58
165	Vancouver Midtown	377	1.23	*	63.01	55	13	–	–	68	62.73
166	Vancouver South	407	1.10		56.43	42	28	–	–	70	53.31
039	**VANCOUVER TOTAL**	**1,735**	**1.11**	*	**57.19**	**211**	**94**	–	–	**305**	**53.20**
	N.S.	**21**	–		–	–	–	–	–	–	–
	PROVINCIAL TOTAL	**11,652**	**1.00**		**51.39**	**1,413**	**568**	–	–	**1,981**	**47.48**

Note: Low Birth Weight – birth weight less than 2,500 grams. Ratio – observed over the expected low birth weight live births. * Statistical testing indicates that observed low birth weight live births are significantly different from the expected ($p<0.05$, two tailed). Rate per 1,000 live births in the specified area. LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not Stated. Non-residents are excluded.

FIGURE 12

LOW BIRTH WEIGHT LIVE BIRTHS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1994–1998



Note: Ratio – Observed over the expected. Refer to Figure 1 to clarify geographical location of Local Health Areas.

HIGHLIGHTS TO TABLE 16/FIGURE 12

- The provincial low birth weight (LBW) (less than 2,500 grams) live birth rate for 1999 was 47.46 per 1,000 live births, which was lower than the 1994–1998 LBW rate (51.39).
- The Local Health Areas (LHAs) with the highest LBW rates (based on at least 5 cases) in 1999 (number of births in parentheses) were:

019	Revelstoke	98.59	(7)
053	Upper Skeena	82.19	(6)
014	Southern Okanagan	71.43	(10)
067	Ladysmith	67.48	(11)
009	Castlegar	65.57	(8)

- The LHAs with lowest LBW rates (based on at least 5 cases) in 1999 (number of births in parentheses) were:

070	Alberni	18.40	(6)
052	Prince Rupert	27.52	(6)
048	Howe Sound	29.41	(12)
044	North Vancouver	29.43	(40)
072/084	Campbell River/V.I. West	29.89	(13)

- In 1999, the four LHAs which did not have any low birth weight births were North Thompson, Powell River, Bella Coola Valley, and Central Coast.
- There were six LHAs with low birth weight ratios for the period 1994–1998 which were statistically significant and high (number of births and LBW rate per 1,000 live births, respectively, in parentheses):

030	South Cariboo	1.47	(33)	(75.34)
014	Southern Okanagan	1.45	(59)	(74.31)
165	Vancouver Midtown	1.23	(377)	(63.01)
163	Vancouver North East	1.18	(379)	(60.64)
036	Surrey	1.15	(1,502)	(59.20)
041	Burnaby	1.11	(584)	(57.15)

- There were nine LHAs with low birth weight ratios for the period 1994–1998 which were statistically significant and low (number of births and LBW rate per 1,000 live births in parentheses). The five lowest were:

064	Gulf Islands	0.36	(9)	(18.29)
026	North Thompson	0.40	(6)	(20.76)
063	Saanich	0.63	(73)	(32.14)
001	Fernie	0.63	(24)	(32.21)
059	Peace River South	0.65	(65)	(33.15)

TABLE 17

SELECTED MATERNAL COMPLICATIONS OF PREGNANCY AND DELIVERY IN LIVE BIRTHS BY AGE OF MOTHER

BRITISH COLUMBIA, 1994–1998 AND 1999

Maternal Complications	ICD9 Code(s)	1994–1998		1999						
				Age of Mother (in Years)						
		Total	Percent	<20	20–29	30–39	40+	N.S.	Total	Percent
Antepartum hemorrhage	640–641	2,670	1.9	19	172	221	23	–	435	1.6
Hypertension/eclampsia	642	5,159	3.6	43	320	347	29	–	739	2.8
Early or threatened labour	644	12,249	8.6	114	775	813	58	–	1,760	6.6
Prolonged pregnancy	645	5,371	3.8	34	335	225	21	–	615	2.3
Hyperemesis	643	135	0.1	3	5	7	–	–	15	0.1
Other complications of pregnancy	646	1,215	0.9	7	104	76	3	–	190	0.7
Infective and parasitic conditions	647	1,054	0.7	11	67	92	9	–	179	0.7
Diabetes/other maternal conditions	648	5,987	4.2	21	313	497	54	–	885	3.3
Malposition and malpresentation	652	9,571	6.7	50	607	779	51	–	1,487	5.6
Disproportion	653	6,396	4.5	30	386	481	36	–	933	3.5
Abnormality of reproductive organs	654(+)	18,773	13.2	20	1,248	2,278	194	–	3,740	14.1
Fetal abnormality affecting mother	655–656	17,256	12.1	164	1,526	1,592	101	–	3,383	12.7
Other problems of amniotic cavity	657–658, 667	7,307	5.1	66	700	652	46	–	1,464	5.8
Obstructed labour	660	9,817	6.9	102	989	923	55	–	2,069	7.8
Abnormality of forces of labour	661	5,504	3.9	37	379	361	20	–	797	3.0
Long labour	662	2,756	1.9	34	275	209	11	–	529	2.0
Umbilical cord complications	663	2,474	1.7	25	277	271	12	–	585	2.2
Obstetrical trauma	664–665	1,516	1.1	18	136	150	8	–	312	1.2
Postpartum hemorrhage	666	3,263	2.3	30	216	182	7	–	435	1.6
Other labour/delivery complications	659, 668–669	23,389	16.5	204	2,306	3,200	312	–	6,022	22.6
Other puerperal complications	670–676	172	0.1	–	10	10	1	–	21	0.1
Total maternal complications	**640–648, 652–676**	**142,034**	**100.0**	**1,032**	**11,146**	**13,366**	**1,051**	**–**	**26,595**	**100.0**
Live births with the above maternal complications	**– Number**	**105,398**		**768**	**8,617**	**9,839**	**706**	**–**	**19,930**	
	– Percent(*)	**46.5**		**38.3**	**44.6**	**51.0**	**63.0**	**–**	**47.7**	

Note: The table reflects all information reported to the Agency on the Notice of Live Birth or Stillbirth form. Percent based upon maternal complications. Percent (*) based upon live births for the specified maternal age group. (+) includes uterine scar from previous cesarean section. Total maternal complications based on the first three maternal complication codes, which may include codes other than those shown here. Total percentage may not add up to 100 due to rounding. N.S. – Not Stated. Non-residents are excluded.

HIGHLIGHTS TO TABLE 17

- Maternal complications of pregnancy and delivery were noted in 19,930 live births in 1999. Included in the definition of maternal complications are births which are premature, post-term, breech, repeat cesarean sections, or multiple births. Nearly half (47.7%) of all live births in 1999 involved maternal complications similar to 46.5% in the 1994–1998 period.
- The percentage of live births with maternal complications of pregnancy and delivery increased with the age of mother. Almost two out of every five live births to teenage mothers had maternal complications (38.3%). In the maternal age groups 20–29 and 30–39, maternal complications occurred in 44.6% and 51.0% of live births, respectively. For mothers aged 40 or older, the proportion rose to over three in five (63.0%). It should be noted, however, that the definition of maternal complications of pregnancy and delivery includes elderly gravida (maternal age of 35 or older).
- Abnormality of reproductive organs/uterine scars plus the category of other labour/delivery complications accounted for over a third (36.7%) of all complications of pregnancy and delivery in 1999. Fetal abnormality affecting the mother was noted in 12.7% of births.

TABLE 17

SELECTED MATERNAL COMPLICATIONS OF PREGNANCY AND DELIVERY IN LIVE BIRTHS BY AGE OF MOTHER

BRITISH COLUMBIA, 1994–1998 AND 1999

Maternal Complications	ICD9 Code(s)	1994–1998		1999						
				Age of Mother (in Years)						
		Total	Percent	<20	20–29	30–39	40+	N.S.	Total	Percent
Antepartum hemorrhage	**640–641**	**2,670**	**1.9**	**19**	**172**	**221**	**23**	**–**	**435**	**1.6**
Hypertension/eclampsia	642	5,159	3.6	43	320	347	29	–	739	2.8
Early or threatened labour	644	12,249	8.6	114	775	813	58	–	1,760	6.6
Prolonged pregnancy	645	5,371	3.8	34	335	225	21	–	615	2.3
Hyperemesis	643	135	0.1	3	5	7	–	–	15	0.1
Other complications of pregnancy	646	1,215	0.9	7	104	76	3	–	190	0.7
Infective and parasitic conditions	647	1,054	0.7	11	67	92	9	–	179	0.7
Diabetes/other maternal conditions	648	5,987	4.2	21	313	497	54	–	885	3.3
Malposition and malpresentation	652	9,571	6.7	50	607	779	51	–	1,487	5.6
Disproportion	653	6,396	4.5	30	386	481	36	–	933	3.5
Abnormality of reproductive organs	654(+)	18,773	13.2	20	1,248	2,278	194	–	3,740	14.1
Fetal abnormality affecting mother	655–656	17,256	12.1	164	1,526	1,592	101	–	3,383	12.7
Other problems of amniotic cavity	657–658, 667	7,307	5.1	66	700	652	46	–	1,464	5.8
Obstructed labour	660	9,817	6.9	102	989	923	55	–	2,069	7.8
Abnormality of forces of labour	661	5,504	3.9	37	379	361	20	–	797	3.0
Long labour	662	2,756	1.9	34	275	209	11	–	529	2.0
Umbilical cord complications	663	2,474	1.7	25	277	271	12	–	585	2.2
Obstetrical trauma	664–665	1,516	1.1	18	136	150	8	–	312	1.2
Postpartum hemorrhage	666	3,263	2.3	30	216	182	7	–	435	1.6
Other labour/delivery complications	659, 668–669	23,389	16.5	204	2,306	3,200	312	–	6,022	22.6
Other puerperal complications	670–676	172	0.1	–	10	10	1	–	21	0.1
Total maternal complications	**640–648, 652–676**	**142,034**	**100.0**	**1,032**	**11,146**	**13,366**	**1,051**	**–**	**26,595**	**100.0**
Live births with the above maternal complications	**– Number**	**105,398**		**768**	**8,617**	**9,839**	**706**	**–**	**19,930**	
	– Percent(*)	**46.5**		**38.3**	**44.6**	**51.0**	**63.0**	**–**	**47.7**	

Note: The table reflects all information reported to the Agency on the Notice of Live Birth or Stillbirth form. Percent based upon maternal complications. Percent (*) based upon live births for the specified maternal age group. (+) includes uterine scar from previous cesarean section. Total maternal complications based on the first three maternal complication codes, which may include codes other than those shown here. Total percentage may not add up to 100 due to rounding. N.S. – Not Stated. Non-residents are excluded.

HIGHLIGHTS TO TABLE 17

- Maternal complications of pregnancy and delivery were noted in 19,930 live births in 1999. Included in the definition of maternal complications are births which are premature, post-term, breech, repeat cesarean sections, or multiple births. Nearly half (47.7%) of all live births in 1999 involved maternal complications similar to 46.5% in the 1994–1998 period.
- The percentage of live births with maternal complications of pregnancy and delivery increased with the age of mother. Almost two out of every five live births to teenage mothers had maternal complications (38.3%). In the maternal age groups 20–29 and 30–39, maternal complications occurred in 44.6% and 51.0% of live births, respectively. For mothers aged 40 or older, the proportion rose to over three in five (63.0%). It should be noted, however, that the definition of maternal complications of pregnancy and delivery includes elderly gravida (maternal age of 35 or older).
- Abnormality of reproductive organs/uterine scars plus the category of other labour/delivery complications accounted for over a third (36.7%) of all complications of pregnancy and delivery in 1999. Fetal abnormality affecting the mother was noted in 12.7% of births.

MATERNAL COMPLICATIONS OF PREGNANCY AND DELIVERY IN LIVE BIRTHS

TABLE 18

BRITISH COLUMBIA, 1994–1998 AND 1999

Local Health Area		1994–1998 Observed Births	Ratio (p)	Percent	Total Live Births	1999 Observed	Complications Expected	Ratio (p)	Percent	Total Live Births
001	Fernie	336	0.97	45.1	745	61	62.1	0.98	46.9	130
002	Cranbrook	448	0.71 *	32.9	1,361	76	118.4	0.64 *	30.6	248
003	Kimberley	140	0.86	39.9	351	23	30.1	0.76	36.5	63
004	Windermere	214	1.02	47.5	451	39	36.8	1.06	50.6	77
005	Creston	269	0.92	43.0	626	58	69.7	0.83	39.7	146
006/007	Kootenay Lake/Nelson	638	1.00	46.5	1,373	83	117.0	0.71 *	33.9	245
009	Castlegar	315	1.04	48.2	654	50	58.3	0.86	41.0	122
010	Arrow Lakes	136	1.02	47.4	287	24	23.4	1.03	49.0	49
011	Trail	469	1.09	50.7	925	82	81.7	1.00	48.0	171
012/013	Grand Forks/Kettle Valley	238	0.97	45.2	527	41	44.4	0.92	44.1	93
014	Southern Okanagan	369	1.00	46.5	794	61	66.8	0.91	43.6	140
015	Penticton	881	1.01	46.7	1,885	155	161.9	0.96	45.7	339
016	Keremeos	104	0.93	43.2	241	14	19.1	0.73	35.0	40
017	Princeton	82	0.83	38.7	212	19	17.2	1.11	52.8	36
018	Golden	207	1.04	48.5	427	30	39.6	0.76	36.1	83
019	Revelstoke	248	1.04	48.4	512	34	33.9	1.00	47.9	71
020	Salmon Arm	722	1.16 *	53.8	1,341	102	116.0	0.88	42.0	243
021	Armstrong–Spallumcheen	208	0.98	45.5	457	45	43.0	1.05	50.0	90
022	Vernon	1,298	0.95	44.2	2,934	267	256.4	1.04	49.7	537
023	Central Okanagan	2,968	0.87 *	40.5	7,335	620	670.4	0.92	44.2	1,404
024	Kamloops	2,722	1.08 *	50.1	5,434	436	447.9	0.97	46.5	938
025	100 Mile House	344	0.96	44.5	773	71	65.9	1.08	51.4	138
026	North Thompson	148	1.10	51.2	289	23	24.4	0.94	45.1	51
027	Cariboo–Chilcotin	995	1.10 *	51.3	1,941	195	170.0	1.15	54.8	356
028	Quesnel	842	1.06	49.4	1,703	161	149.5	1.08	51.4	313
029	Lillooet	193	1.25 *	58.0	333	27	32.0	0.84	40.3	67
030	South Cariboo	205	1.01	46.8	438	27	32.0	0.84	40.3	67
031	Merritt	355	1.00	46.4	765	43	48.2	0.89	42.6	101
032	Hope	209	0.99	45.8	456	40	35.3	1.13	54.1	74
033	Chilliwack	2,026	0.98	45.4	4,465	402	408.3	0.98	47.0	855
034	Abbotsford	3,472	0.90 *	41.9	8,293	696	742.0	0.94	44.8	1,554
035	Langley	2,730	0.91 *	42.2	6,474	592	614.1	0.96	46.0	1,286
036	Surrey	11,820	1.00	46.6	25,371	2,277	2,288.6	0.99	47.5	4,793
037	Delta	2,743	1.03	47.8	5,735	528	510.0	1.04	49.4	1,068
038	Richmond	4,058	1.04 *	48.3	8,398	750	725.3	1.03	49.4	1,519
040	New Westminster	1,620	1.03	48.1	3,368	310	296.5	1.05	49.9	621
041	Burnaby	4,557	0.96 *	44.6	10,219	918	956.4	0.96	45.8	2,003
042	Maple Ridge	2,271	1.02	47.2	4,811	445	415.4	1.07	51.1	870
043	Coquitlam	5,371	1.01	46.8	11,472	1,052	1,037.1	1.01	48.4	2,172
044	North Vancouver	3,142	0.94 *	43.7	7,196	645	648.9	0.99	47.5	1,359
045	West Vancouver–Bowen Is.	719	0.96	44.7	1,608	130	147.1	0.88	42.2	308
046	Sunshine Coast	585	0.98	45.6	1,283	103	101.2	1.02	48.6	212
047	Powell River	472	0.98	45.4	1,040	78	74.0	1.05	50.3	155
048	Howe Sound	868	0.96	44.8	1,938	187	194.8	0.96	45.8	408
049	Bella Coola Valley	115	0.98	45.6	252	31	28.2	1.10	52.5	59
050	Queen Charlotte	187	0.94	43.5	430	30	29.1	1.03	49.2	61
051	Snow Country	40	1.09	50.6	79	6	4.8	1.26	60.0	10
052	Prince Rupert	662	0.93	43.3	1,530	94	104.1	0.90	43.1	218
053	Upper Skeena	216	1.07	49.5	436	34	34.9	0.98	46.6	73
054	Smithers	583	0.89 *	41.2	1,414	117	134.2	0.87	41.6	281
055/093	Burns Lake/Eutsuk	245	0.92	42.8	573	43	42.0	1.02	48.9	88
056	Nechako	629	0.93	43.4	1,450	107	111.7	0.96	45.7	234
057	Prince George	3,032	0.96 *	44.7	6,787	513	561.5	0.91 *	43.6	1,176
059	Peace River South	819	0.90 *	41.8	1,961	142	151.8	0.94	44.7	318
060	Peace River North	1,001	0.90 *	41.7	2,402	166	210.6	0.79 *	37.6	441
061	Greater Victoria	4,710	1.03 *	48.0	9,819	829	843.2	0.98	46.9	1,766
062	Sooke	1,536	1.04	48.2	3,186	261	266.9	0.98	46.7	559
063	Saanich	1,071	1.01	47.2	2,271	177	185.7	0.95	45.5	389
064	Gulf Islands	222	0.97	45.1	492	38	44.9	0.85	40.4	94
065	Cowichan	1,263	0.99	46.0	2,746	222	242.1	0.92	43.8	507
066	Lake Cowichan	171	1.12	52.0	329	31	29.6	1.05	50.0	62
067	Ladysmith	450	1.06	49.3	913	86	77.8	1.10	52.8	163
068	Nanaimo	2,571	1.18 *	54.8	4,695	520	405.4	1.28 *	61.2	849
069	Qualicum	770	1.15 *	53.3	1,444	155	126.1	1.23 *	58.7	264
070	Alberni	902	1.00	46.5	1,941	166	155.7	1.07	50.9	326
071	Courtenay	1,537	1.13 *	52.3	2,939	276	255.5	1.08	51.6	535
072/084	Campbell River/V.I. West	1,243	1.07 *	49.5	2,509	235	207.7	1.13	54.0	435
075	Mission	1,034	0.96	44.4	2,329	205	222.0	0.92	44.1	465
076	Agassiz–Harrison	195	1.02	47.4	411	39	34.9	1.12	53.4	73
077	Summerland	189	0.91	42.3	447	36	41.1	0.88	41.9	86
078	Enderby	204	1.04	48.2	423	30	30.6	0.98	46.9	64
080	Kitimat	381	1.07	49.6	768	78	68.3	1.14	54.5	143
081	Fort Nelson	263	0.96	44.4	592	44	44.9	0.98	46.8	94
083	Central Coast	67	0.99	46.2	145	21	14.8	1.42	67.7	31
085	Vancouver Island North	558	1.09 *	50.7	1,101	96	86.4	1.11	53.0	181
087/094	Stikine/Telegraph Creek	46	0.80	37.1	124	10	10.5	0.95	45.5	22
088	Terrace	722	0.91 *	42.4	1,703	152	143.2	1.06	50.7	300
092	Nishga	82	0.99	45.8	179	12	11.5	1.05	50.0	24
161	Vancouver City Centre	1,544	1.15 *	53.5	2,885	370	313.7	1.18 *	56.3	657
162	Vancouver Downtown E. Side	1,288	0.99	46.0	2,797	232	220.1	1.05	50.3	461
163	Vancouver North East	2,944	1.01	47.1	6,250	559	558.7	1.00	47.8	1,170
164	Vancouver West Side	2,406	1.05 *	48.6	4,949	565	499.9	1.13 *	54.0	1,047
165	Vancouver Midtown	3,012	1.08 *	50.3	5,983	543	517.6	1.05	50.1	1,084
166	Vancouver South	3,491	1.04 *	48.4	7,213	638	626.9	1.02	48.6	1,313
039	**VANCOUVER TOTAL**	**14,800**	**1.05 ***	**48.8**	**30,338**	**2,908**	**2,737.5**	**1.06**	**50.7**	**5,733**
	N.S.	125	–	–	359	–	–	–	–	–
	PROVINCIAL TOTAL	**105,398**	–	–	**226,758**	**19,930**	–	–	–	**41,739**

Note: The table reflects all information reported to the Agency on the Notice of Live Birth or Stillbirth form. Observed births denotes live births with at least one maternal complication code in the range 640–648 or 652–676. *Statistical testing indicates that the observed number of births with maternal complications is signficantly different from the expected ($p<0.05$, two tailed). Ratio-observed over expected. Percent of observed births is based on total live births. LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not Stated. Non-residents are excluded.

MATERNAL COMPLICATIONS OF PREGNANCY AND DELIVERY IN LIVE BIRTHS

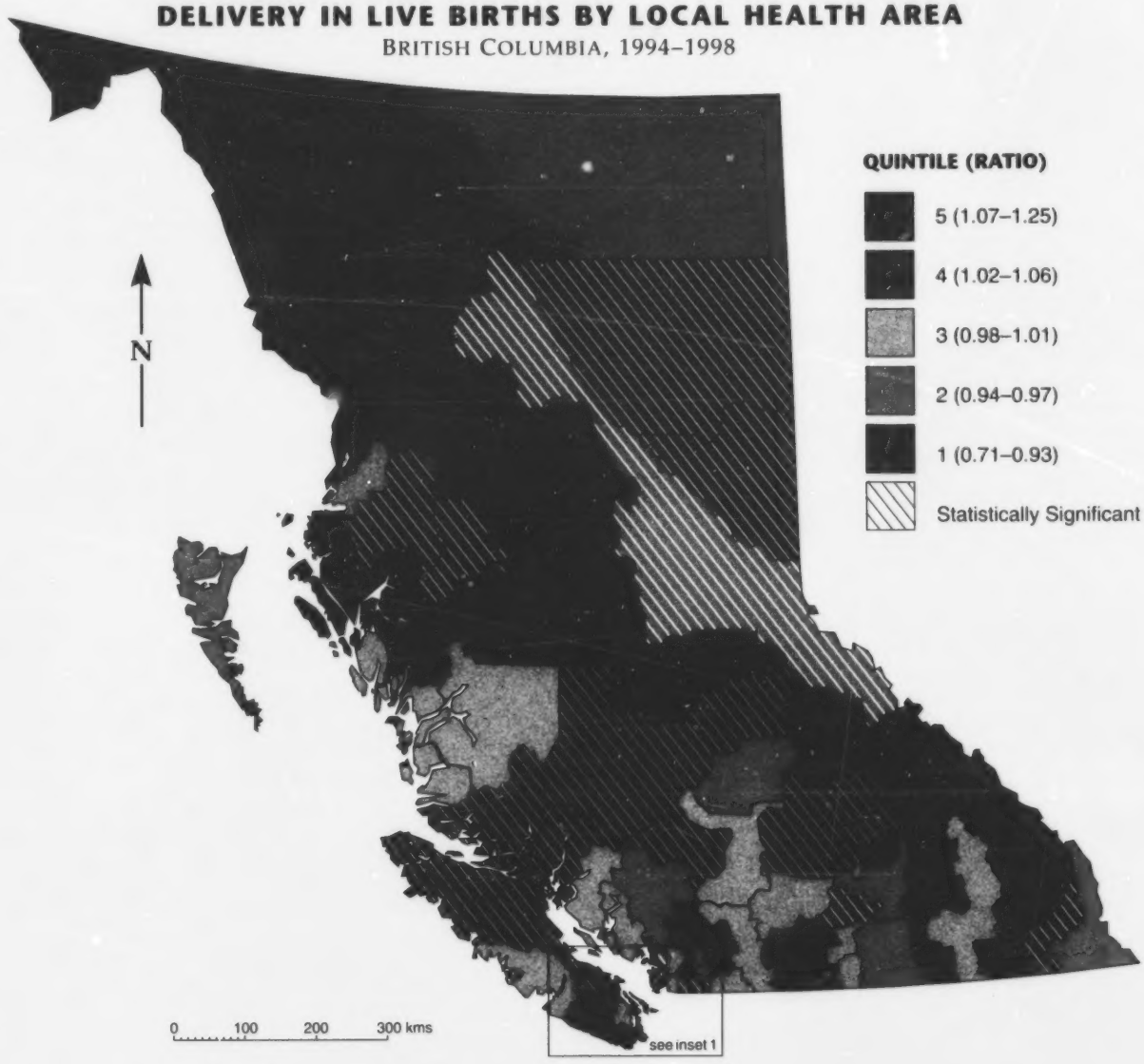
Local Health Area		1994–1998 Observed Births	Ratio (p)	Percent	Total Live Births	1999 Complications Observed	Complications Expected	Ratio (p)	Percent	Total Live Births
001	Fernie	336	0.97	45.1	745	61	62.1	0.98	46.9	130
002	Cranbrook	448	0.71 *	32.9	1,361	76	118.4	0.64 *	30.6	248
003	Kimberley	140	0.86	39.9	351	23	30.1	0.76	36.5	63
004	Windermere	214	1.02	47.5	451	39	36.8	1.06	50.6	77
005	Creston	269	0.92	43.0	626	58	69.7	0.83	39.7	146
006/007	Kootenay Lake/Nelson	638	1.00	46.5	1,373	83	117.0	0.71 *	33.9	245
009	Castlegar	315	1.04	48.2	654	50	58.3	0.86	41.0	122
010	Arrow Lakes	136	1.02	47.4	287	24	23.4	1.03	49.0	49
011	Trail	469	1.09	50.7	925	82	81.7	1.00	48.0	171
012/013	Grand Forks/Kettle Valley	238	0.97	45.2	527	41	44.4	0.92	44.1	93
014	Southern Okanagan	369	1.00	46.5	794	61	66.8	0.91	43.6	140
015	Penticton	881	1.01	46.7	1,885	155	161.9	0.96	45.7	339
016	Keremeos	104	0.93	43.2	241	14	19.1	0.73	35.0	40
017	Princeton	82	0.83	38.7	212	19	17.2	1.11	52.8	36
018	Golden	207	1.04	48.5	427	30	39.6	0.76	36.1	83
019	Revelstoke	248	1.04	48.4	512	34	33.9	1.00	47.9	71
020	Salmon Arm	722	1.16 *	53.8	1,341	102	116.0	0.88	42.0	243
021	Armstrong–Spallumcheen	208	0.98	45.5	457	45	43.0	1.05	50.0	90
022	Vernon	1,298	0.95	44.2	2,934	267	256.4	1.04	49.7	537
023	Central Okanagan	2,968	0.87 *	40.5	7,335	620	670.4	0.92	44.2	1,404
024	Kamloops	2,722	1.08 *	50.1	5,434	436	447.9	0.97	46.5	938
025	100 Mile House	344	0.96	44.5	773	71	65.9	1.08	51.4	138
026	North Thompson	148	1.10	51.2	289	23	24.4	0.94	45.1	51
027	Cariboo–Chilcotin	995	1.10 *	51.3	1,941	195	170.0	1.15	54.8	356
028	Quesnel	842	1.06	49.4	1,703	161	149.5	1.08	51.4	313
029	Lillooet	193	1.25 *	58.0	333	27	32.0	0.84	40.3	67
030	South Cariboo	205	1.01	46.8	438	27	32.0	0.84	40.3	67
031	Merritt	355	1.00	46.4	765	43	48.2	0.89	42.6	101
032	Hope	209	0.99	45.8	456	40	35.3	1.13	54.1	74
033	Chilliwack	2,026	0.98	45.4	4,465	402	408.3	0.98	47.0	855
034	Abbotsford	3,472	0.90 *	41.9	8,293	696	742.0	0.94	44.8	1,554
035	Langley	2,730	0.91 *	42.2	6,474	592	614.1	0.96	46.0	1,286
036	Surrey	11,820	1.00	46.6	25,371	2,277	2,288.6	0.99	47.5	4,793
037	Delta	2,743	1.03	47.8	5,735	528	510.0	1.04	49.4	1,068
038	Richmond	4,058	1.04 *	48.3	8,398	750	725.3	1.03	49.4	1,519
040	New Westminster	1,620	1.03	48.1	3,368	310	296.5	1.05	49.9	621
041	Burnaby	4,557	0.96 *	44.6	10,219	918	956.4	0.96	45.8	2,003
042	Maple Ridge	2,271	1.02	47.2	4,811	445	415.4	1.07	51.1	870
043	Coquitlam	5,371	1.01	46.8	11,472	1,052	1,037.1	1.01	48.4	2,172
044	North Vancouver	3,142	0.94 *	43.7	7,196	645	648.9	0.99	47.5	1,359
045	West Vancouver–Bowen Is.	719	0.96	44.7	1,608	130	147.1	0.88	42.2	308
046	Sunshine Coast	585	0.98	45.6	1,283	103	101.2	1.02	48.6	212
047	Powell River	472	0.98	45.4	1,040	78	74.0	1.05	50.3	155
048	Howe Sound	868	0.96	44.8	1,938	187	194.8	0.96	45.8	408
049	Bella Coola Valley	115	0.98	45.6	252	31	28.2	1.10	52.5	59
050	Queen Charlotte	187	0.94	43.5	430	30	29.1	1.03	49.2	61
051	Snow Country	40	1.09	50.6	79	6	4.8	1.26	60.0	10
052	Prince Rupert	662	0.93	43.3	1,530	94	104.1	0.90	43.1	218
053	Upper Skeena	216	1.07	49.5	436	34	34.9	0.98	46.6	73
054	Smithers	583	0.89 *	41.2	1,414	117	134.2	0.87	41.6	281
055/093	Burns Lake/Eutsuk	245	0.92	42.8	573	43	42.0	1.02	48.9	88
056	Nechako	629	0.93	43.4	1,450	107	111.7	0.96	45.7	234
057	Prince George	3,032	0.96 *	44.7	6,787	513	561.5	0.91 *	43.6	1,176
059	Peace River South	819	0.90 *	41.8	1,961	142	151.8	0.94	44.7	318
060	Peace River North	1,001	0.90 *	41.7	2,402	166	210.6	0.79 *	37.6	441
061	Greater Victoria	4,710	1.03 *	48.0	9,819	829	843.2	0.98	46.9	1,766
062	Sooke	1,536	1.04	48.2	3,186	261	266.9	0.98	46.7	559
063	Saanich	1,071	1.01	47.2	2,271	177	185.7	0.95	45.5	389
064	Gulf Islands	222	0.97	45.1	492	38	44.9	0.85	40.4	94
065	Cowichan	1,263	0.99	46.0	2,746	222	242.1	0.92	43.8	507
066	Lake Cowichan	171	1.12	52.0	329	31	29.6	1.05	50.0	62
067	Ladysmith	450	1.06	49.3	913	86	77.8	1.10	52.8	163
068	Nanaimo	2,571	1.18 *	54.8	4,695	520	405.4	1.28 *	61.2	849
069	Qualicum	770	1.15 *	53.3	1,444	155	126.1	1.23 *	58.7	264
070	Alberni	902	1.00	46.5	1,941	166	155.7	1.07	50.9	326
071	Courtenay	1,537	1.13 *	52.3	2,939	276	255.5	1.08	51.6	535
072/084	Campbell River/V.I. West	1,243	1.07 *	49.5	2,509	235	207.7	1.13	54.0	435
075	Mission	1,034	0.96	44.4	2,329	205	222.0	0.92	44.1	465
076	Agassiz–Harrison	195	1.02	47.4	411	39	34.9	1.12	53.4	73
077	Summerland	189	0.91	42.3	447	36	41.1	0.88	41.9	86
078	Enderby	204	1.04	48.2	423	30	30.6	0.98	46.9	64
080	Kitimat	381	1.07	49.6	768	78	68.3	1.14	54.5	143
081	Fort Nelson	263	0.96	44.4	592	44	44.9	0.98	46.8	94
083	Central Coast	67	0.99	46.2	145	21	14.8	1.42	67.7	31
085	Vancouver Island North	558	1.09 *	50.7	1,101	96	86.4	1.11	53.0	181
087/094	Stikine/Telegraph Creek	46	0.80	37.1	124	10	10.5	0.95	45.5	22
088	Terrace	722	0.91 *	42.4	1,703	152	143.2	1.06	50.7	300
092	Nishga	82	0.99	45.8	179	12	11.5	1.05	50.0	24
161	Vancouver City Centre	1,544	1.15 *	53.5	2,885	370	313.7	1.18 *	56.3	657
162	Vancouver Downtown E. Side	1,288	0.99	46.0	2,797	232	220.1	1.05	50.3	461
163	Vancouver North East	2,944	1.01	47.1	6,250	559	558.7	1.00	47.8	1,170
164	Vancouver West Side	2,406	1.05 *	48.6	4,949	565	499.9	1.13 *	54.0	1,047
165	Vancouver Midtown	3,012	1.08 *	50.3	5,983	543	517.6	1.05	50.1	1,084
166	Vancouver South	3,491	1.04 *	48.4	7,213	638	626.9	1.02	48.6	1,313
039	**VANCOUVER TOTAL**	**14,800**	**1.05** *	**48.8**	**30,338**	**2,908**	**2,737.5**	**1.06**	**50.7**	**5,733**
	N.S.	125	–	–	359	–	–	–	–	–
	PROVINCIAL TOTAL	**105,398**	–	–	**226,758**	**19,930**	–	–	–	**41,739**

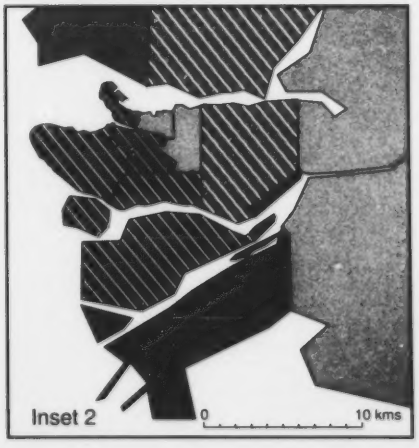
Note: The table reflects all information reported to the Agency on the Notice of Live Birth or Stillbirth form. Observed births denotes live births with at least one maternal complication code in the range 640–648 or 652–676. *Statistical testing indicates that the observed number of births with maternal complications is signficantly different from the expected ($p<0.05$, two tailed). Ratio-observed over expected. Percent of observed births is based on total live births. LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not Stated. Non-residents are excluded.

FIGURE 13

MATERNAL COMPLICATIONS OF PREGNANCY AND DELIVERY IN LIVE BIRTHS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1994–1998





Note: Ratio – Observed over the expected. Refer to Figure 1 to clarify geographical location of Local Health Areas.

HIGHLIGHTS TO TABLE 18/FIGURE 13

- There were four Local Health Areas (LHAs) with maternal complication ratios that were statistically significant and high in 1999 (number of births with maternal complications in parentheses). These were:

068	Nanaimo	1.28	(520)
069	Qualicum	1.23	(155)
161	Vancouver City Centre	1.18	(370)
164	Vancouver West Side	1.13	(565)

  All above LHAs also had statistically significant high ratios for the 1994–1998 period.

- The four LHAs with maternal complication ratios, which were statistically significant and low in 1999 (number of births in parentheses), were:

002	Cranbrook	0.64	(76)
006/007	Kootenay Lake/Nelson	0.71	(83)
060	Peace River North	0.79	(166)
057	Prince George	0.91	(513)

  With the exception of Kootenay Lake/Nelson, all of these LHAs also had statistically significant low ratios for the 1994–1998 period.

- There were 15 LHAs with statistically significant and high maternal complication ratios in 1994–1998. The five LHAs with the highest ratios which were statistically significant (number of births in parentheses) were:

029	Lillooet	1.25	(193)
068	Nanaimo	1.18	(2,571)
020	Salmon Arm	1.16	(722)
161	Vancouver City Centre	1.15	(1,544)
069	Qualicum	1.15	(770)

- There were 11 LHAs with statistically significant and low maternal complication ratios in 1994–1998. The five LHAs with the lowest ratios which were statistically significant (number of births in parentheses) were:

002	Cranbrook	0.71	(448)
023	Central Okanagan	0.87	(2,968)
054	Smithers	0.89	(583)
060	Peace River North	0.90	(1,001)
059	Peace River South	0.90	(819)

TABLE 19
PERINATAL COMPLICATIONS IN LIVE BIRTHS BY AGE OF MOTHER
BRITISH COLUMBIA, 1994–1998 AND 1999

Perinatal Complications	ICD9 Code(s)	1994–1998		1999						
				Age of Mother (in Years)						
		Total	Percent	<20	20–29	30–39	40+	N.S.	Total	Percent
Maternal conditions not related to pregnancy	760	20	0.0	3	6	6	–	–	15	0.1
Complications of pregnancy, labour and delivery	761, 763(+)	9,735	10.5	103	1,031	1,280	75	–	2,489	14.2
Complications of placenta, cord and membranes	762	2,805	3.0	27	281	346	20	–	674	3.9
Slow fetal growth/ malnutrition/small for dates	764	2,781	3.0	36	283	245	20	–	584	3.3
Short gestation	765	14,010	15.2	133	1,077	1,238	101	–	2,549	14.6
Long gestation and high birth weight	766(++)	8,753	9.5	57	705	645	39	–	1,446	8.3
Birth trauma	767	495	0.5	5	45	40	2	–	92	0.5
Intrauterine hypoxia and birth asphyxia	768	51,789	56.1	493	4,398	4,208	223	–	9,322	53.3
Respiratory conditions of fetus and newborn	769–770	1,175	1.3	15	95	83	2	–	195	1.1
Infections specific to the perinatal period	771	117	0.1	2	5	5	–	–	12	0.1
Fetal and neonatal hemorrhage	772	130	0.1	1	4	6	–	–	11	0.1
Perinatal jaundice/other hematological disorders	773–774, 776	73	0.1	–	4	5	1	–	10	0.1
Perinatal endocrine and metabolic disturbances	775	32	0.0	–	5	7	–	–	12	0.1
Perinatal digestive system disorders	777	3	0.0	–	–	2	–	–	2	0.0
Integument and temperature regulation conditions	778	149	0.2	1	12	10	–	–	23	0.1
Other and ill-defined perinatal conditions	779	229	0.2	1	20	18	1	–	40	0.2
Total perinatal conditions	**760–779**	**92,296**	**100.0**	**877**	**7,971**	**8,144**	**484**	**–**	**17,476**	**100.0**
Live births with the above perinatal complications	**– Number**	**73,132**		**700**	**6,205**	**6,157**	**347**	**–**	**13,409**	
	– Percent(*)	**32.3**		**34.9**	**32.1**	**31.9**	**31.0**	**–**	**32.1**	

Note: The table reflects all information reported to the Agency on the Notice of Live Birth or Stillbirth form. Percent based upon perinatal complications. Percent (*) based upon live births for the maternal age group. (+) excludes 763.3 which is used only as a flag for vacuum extraction delivery. (++) includes only 766.0 (where birth weight ≥ 4500 grams) and 766.2 (where gestational age >41 weeks). Total perinatal complications based on the first five complication codes, which may include codes other than those shown here. Total percentage may not add up to 100 due to rounding. N.S. – Not Stated. Non-residents are excluded.

HIGHLIGHTS TO TABLE 19

- Perinatal complications were noted in 13,409 births or one in three (32.1%) live births in 1999. These complications were noted in 32.3% of live births in 1994–1998.
- The proportion of births which had perinatal complications was highest (34.9%) in births to teenage mothers under age 20, and decreased slightly as the maternal age groups increased, from 32.1% in the 20–29 age group to 31.0% for mothers over 40 years of age.
- Intrauterine hypoxia and birth asphyxia accounted for more than half (53.3%) of the perinatal complications noted in 1999. Complications of pregnancy, labour and delivery plus short gestation accounted for more than one out of four (28.8%) of the perinatal complications. Long gestation and high birth weight was noted as a perinatal complication in less than one in ten births (8.3%). Similar pattern was observed for the 1994–1998 period.

TABLE 19
PERINATAL COMPLICATIONS IN LIVE BIRTHS BY AGE OF MOTHER
BRITISH COLUMBIA, 1994–1998 AND 1999

Perinatal Complications	ICD9 Code(s)	1994–1998		1999						
				Age of Mother (in Years)						
		Total	Percent	<20	20–29	30–39	40+	N.S.	Total	Percent
Maternal conditions not related to pregnancy	760	20	0.0	3	6	6	–	–	15	0.1
Complications of pregnancy, labour and delivery	761, 763(+)	9,735	10.5	103	1,031	1,280	75	–	2,489	14.2
Complications of placenta, cord and membranes	762	2,805	3.0	27	281	346	20	–	674	3.9
Slow fetal growth/ malnutrition/small for dates	764	2,781	3.0	36	283	245	20	–	584	3.3
Short gestation	765	14,010	15.2	133	1,077	1,238	101	–	2,549	14.6
Long gestation and high birth weight	766(++)	8,753	9.5	57	705	645	39	–	1,446	8.3
Birth trauma	767	495	0.5	5	45	40	2	–	92	0.5
Intrauterine hypoxia and birth asphyxia	768	51,789	56.1	493	4,398	4,208	223	–	9,322	53.3
Respiratory conditions of fetus and newborn	769–770	1,175	1.3	15	95	83	2	–	195	1.1
Infections specific to the perinatal period	771	117	0.1	2	5	5	–	–	12	0.1
Fetal and neonatal hemorrhage	772	130	0.1	1	4	6	–	–	11	0.1
Perinatal jaundice/other hematological disorders	773–774, 776	73	0.1	–	4	5	1	–	10	0.1
Perinatal endocrine and metabolic disturbances	775	32	0.0	–	5	7	–	–	12	0.1
Perinatal digestive system disorders	777	3	0.0	–	–	2	–	–	2	0.0
Integument and temperature regulation conditions	778	149	0.2	1	12	10	–	–	23	0.1
Other and ill-defined perinatal conditions	779	229	0.2	1	20	18	1	–	40	0.2
Total perinatal conditions	**760–779**	**92,296**	**100.0**	**877**	**7,971**	**8,144**	**484**	**–**	**17,476**	**100.0**
Live births with the above perinatal complications	**– Number**	**73,132**		**700**	**6,205**	**6,157**	**347**	**–**	**13,409**	
	– Percent(*)	**32.3**		**34.9**	**32.1**	**31.9**	**31.0**	**–**	**32.1**	

Note: The table reflects all information reported to the Agency on the Notice of Live Birth or Stillbirth form. Percent based upon perinatal complications. Percent (*) based upon live births for the maternal age group. (+) excludes 763.3 which is used only as a flag for vacuum extraction delivery. (++) includes only 766.0 (where birth weight ≥ 4500 grams) and 766.2 (where gestational age >41 weeks). Total perinatal complications based on the first five complication codes, which may include codes other than those shown here. Total percentage may not add up to 100 due to rounding. N.S. – Not Stated. Non-residents are excluded.

HIGHLIGHTS TO TABLE 19

- Perinatal complications were noted in 13,409 births or one in three (32.1%) live births in 1999. These complications were noted in 32.3% of live births in 1994–1998.
- The proportion of births which had perinatal complications was highest (34.9%) in births to teenage mothers under age 20, and decreased slightly as the maternal age groups increased, from 32.1% in the 20–29 age group to 31.0% for mothers over 40 years of age.
- Intrauterine hypoxia and birth asphyxia accounted for more than half (53.3%) of the perinatal complications noted in 1999. Complications of pregnancy, labour and delivery plus short gestation accounted for more than one out of four (28.8%) of the perinatal complications. Long gestation and high birth weight was noted as a perinatal complication in less than one in ten births (8.3%). Similar pattern was observed for the 1994–1998 period.

PERINATAL COMPLICATIONS IN LIVE BIRTHS BY LOCAL HEALTH AREA

TABLE 20

BRITISH COLUMBIA, 1994–1998 AND 1999

Local Health Area		1994–1998 Observed Births	Ratio (p)	Percent	Total Live Births	1999 Observed Births	Expected Births	Ratio (p)	Percent	Total Live Births
001	Fernie	232	0.97	31.1	745	43	41.8	1.03	33.1	130
002	Cranbrook	408	0.93	30.0	1,361	68	79.7	0.85	27.4	248
003	Kimberley	114	1.01	32.5	351	27	20.2	1.33	42.9	63
004	Windermere	174	1.20 *	38.6	451	19	24.7	0.77	24.7	77
005	Creston	242	1.20 *	38.7	626	53	46.9	1.13	36.3	146
006/007	Kootenay Lake/Nelson	535	1.21 *	39.0	1,373	86	78.7	1.09	35.1	245
009	Castlegar	230	1.09	35.2	654	42	39.2	1.07	34.4	122
010	Arrow Lakes	103	1.11	35.9	287	18	15.7	1.14	36.7	49
011	Trail	332	1.11	35.9	925	60	54.9	1.09	35.1	171
012/013	Grand Forks/Kettle Valley	163	0.96	30.9	527	27	29.9	0.90	29.0	93
014	Southern Okanagan	287	1.12	36.1	794	47	45.0	1.04	33.6	140
015	Penticton	669	1.10 *	35.5	1,885	113	108.9	1.04	33.3	339
016	Keremeos	92	1.18	38.2	241	8	12.9	0.62	20.0	40
017	Princeton	78	1.14	36.8	212	18	11.6	1.56	50.0	36
018	Golden	203	1.47 *	47.5	427	29	26.7	1.09	34.9	83
019	Revelstoke	131	0.79 *	25.6	512	21	22.8	0.92	29.6	71
020	Salmon Arm	421	0.97	31.4	1,341	70	78.1	0.90	28.8	243
021	Armstrong–Spallumcheen	150	1.02	32.8	457	26	28.9	0.90	28.9	90
022	Vernon	909	0.96	31.0	2,934	176	172.5	1.02	32.8	537
023	Central Okanagan	2,157	0.91 *	29.4	7,335	435	451.0	0.96	31.0	1,404
024	Kamloops	1,799	1.03	33.1	5,434	327	301.3	1.09	34.9	938
025	100 Mile House	291	1.17 *	37.6	773	52	44.3	1.17	37.7	138
026	North Thompson	102	1.09	35.3	289	15	16.4	0.92	29.4	51
027	Cariboo–Chilcotin	947	1.51 *	48.8	1,941	150	114.4	1.31 *	42.1	356
028	Quesnel	652	1.19 *	38.3	1,703	120	100.6	1.19	38.3	313
029	Lillooet	160	1.49 *	48.0	333	31	21.5	1.44	46.3	67
030	South Cariboo	169	1.20 *	38.6	438	23	21.5	1.07	34.3	67
031	Merritt	235	0.95	30.7	765	29	32.4	0.89	28.7	101
032	Hope	152	1.03	33.3	456	23	23.8	0.97	31.1	74
033	Chilliwack	1,583	1.10 *	35.5	4,465	294	274.7	1.07	34.4	855
034	Abbotsford	2,872	1.07 *	34.6	8,293	494	499.2	0.99	31.8	1,554
035	Langley	2,128	1.02	32.9	6,474	440	413.1	1.07	34.2	1,286
036	Surrey	6,694	0.82 *	26.4	25,371	1,356	1,539.8	0.88 *	28.3	4,793
037	Delta	1,582	0.86 *	27.6	5,735	309	343.1	0.90	28.9	1,068
038	Richmond	2,247	0.83 *	26.8	8,398	420	488.0	0.86 *	27.6	1,519
040	New Westminster	1,202	1.11 *	35.7	3,368	223	199.5	1.12	35.9	621
041	Burnaby	2,920	0.89 *	28.6	10,219	583	643.5	0.91 *	29.1	2,003
042	Maple Ridge	1,720	1.11 *	35.8	4,811	310	279.5	1.11	35.6	870
043	Coquitlam	4,003	1.08 *	34.9	11,472	765	697.8	1.10 *	35.2	2,172
044	North Vancouver	2,231	0.96	31.0	7,196	432	436.6	0.99	31.8	1,359
045	West Vancouver–Bowen Is.	513	0.99	31.9	1,608	102	98.9	1.03	33.1	308
046	Sunshine Coast	478	1.16 *	37.3	1,283	84	68.1	1.23	39.6	212
047	Powell River	384	1.14 *	36.9	1,040	48	49.8	0.96	31.0	155
048	Howe Sound	662	1.06	34.2	1,938	141	131.1	1.08	34.6	408
049	Bella Coola Valley	83	1.02	32.9	252	23	19.0	1.21	39.0	59
050	Queen Charlotte	153	1.10	35.6	430	22	19.6	1.12	36.1	61
051	Snow Country	25	0.98	31.6	79	4	3.2	1.25	40.0	10
052	Prince Rupert	447	0.91 *	29.2	1,530	70	70.0	1.00	32.1	218
053	Upper Skeena	169	1.20 *	38.8	436	31	23.5	1.32	42.5	73
054	Smithers	459	1.01	32.5	1,414	91	90.3	1.01	32.4	281
055/093	Burns Lake/Eutsuk	159	0.86	27.7	573	31	28.3	1.10	35.2	88
056	Nechako	516	1.10 *	35.6	1,450	103	75.2	1.37 *	44.0	234
057	Prince George	2,516	1.15 *	37.1	6,787	426	377.8	1.13 *	36.2	1,176
059	Peace River South	763	1.21 *	38.9	1,961	106	102.2	1.04	33.3	318
060	Peace River North	710	0.92 *	29.6	2,402	109	141.7	0.77 *	24.7	441
061	Greater Victoria	3,251	1.03	33.1	9,819	551	567.3	0.97	31.2	1,766
062	Sooke	1,104	1.07 *	34.7	3,186	188	179.6	1.05	33.6	559
063	Saanich	736	1.00	32.4	2,271	139	125.0	1.11	35.7	389
064	Gulf Islands	146	0.92	29.7	492	39	30.2	1.29	41.5	94
065	Cowichan	895	1.01	32.6	2,746	148	162.9	0.91	29.2	507
066	Lake Cowichan	116	1.09	35.3	329	20	19.9	1.00	32.3	62
067	Ladysmith	303	1.03	33.2	913	61	52.4	1.16	37.4	163
068	Nanaimo	1,912	1.26 *	40.7	4,695	382	272.7	1.40 *	45.0	849
069	Qualicum	557	1.20 *	38.6	1,444	129	84.8	1.52 *	48.9	264
070	Alberni	566	0.90 *	29.2	1,941	93	104.7	0.89	28.5	326
071	Courtenay	1,107	1.17 *	37.7	2,939	202	171.9	1.18 *	37.8	535
072/084	Campbell River/V.I. West	984	1.22 *	39.2	2,509	173	139.7	1.24 *	39.8	435
075	Mission	756	1.01	32.5	2,329	147	149.4	0.98	31.6	465
076	Agassiz–Harrison	151	1.14	36.7	411	19	23.5	0.81	26.0	73
077	Summerland	147	1.02	32.9	447	31	27.6	1.12	36.0	86
078	Enderby	117	0.86	27.7	423	17	20.6	0.83	26.6	64
080	Kitimat	300	1.21 *	39.1	768	41	45.9	0.89	28.7	143
081	Fort Nelson	149	0.78 *	25.2	592	22	30.2	0.73	23.4	94
083	Central Coast	61	1.30	42.1	145	13	10.0	1.31	41.9	31
085	Vancouver Island North	454	1.28 *	41.2	1,101	58	58.1	1.00	32.0	181
087/094	Stikine/Telegraph Creek	42	1.05	33.9	124	8	7.1	1.13	36.4	22
088	Terrace	552	1.01	32.4	1,703	103	96.4	1.07	34.3	300
092	Nishga	66	1.14	36.9	179	9	7.7	1.17	37.5	24
161	Vancouver City Centre	971	1.04	33.7	2,885	180	211.1	0.85 *	27.4	657
162	Vancouver Downtown E. Side	887	0.98	31.7	2,797	152	148.1	1.03	33.0	461
163	Vancouver North East	1,766	0.88 *	28.3	6,250	331	375.9	0.88 *	28.3	1,170
164	Vancouver West Side	1,542	0.97	31.2	4,949	310	336.4	0.92	29.6	1,047
165	Vancouver Midtown	1,888	0.98	31.6	5,983	318	348.2	0.91	29.3	1,084
166	Vancouver South	2,056	0.88 *	28.5	7,213	352	421.8	0.83 *	26.8	1,313
039	**VANCOUVER TOTAL**	**9,193**	**0.94 ***	**30.3**	**30,338**	**1,643**	**1,841.8**	**0.89 ***	**28.7**	**5,733**
	N.S.	111	–	–	359	–	–	–	–	–
	PROVINCIAL TOTAL	**73,132**	**–**	**–**	**226,758**	**13,409**	**–**	**–**	**–**	**41,739**

Note: The table reflects all information reported to the Agency on the Notice of Live Birth or Stillbirth form. Observed births denotes live births with at least one perinatal complication code in the range 760–779. *Statistical testing indicates that observed number of births with perinatal complications is significantly different from the expected ($p<0.05$, two tailed). Percent of observed births is based on total live births. Ratio – observed over the expected. LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not Stated. Non-residents are excluded.

PERINATAL COMPLICATIONS IN LIVE BIRTHS BY LOCAL HEALTH AREA

TABLE 20

BRITISH COLUMBIA, 1994–1998 AND 1999

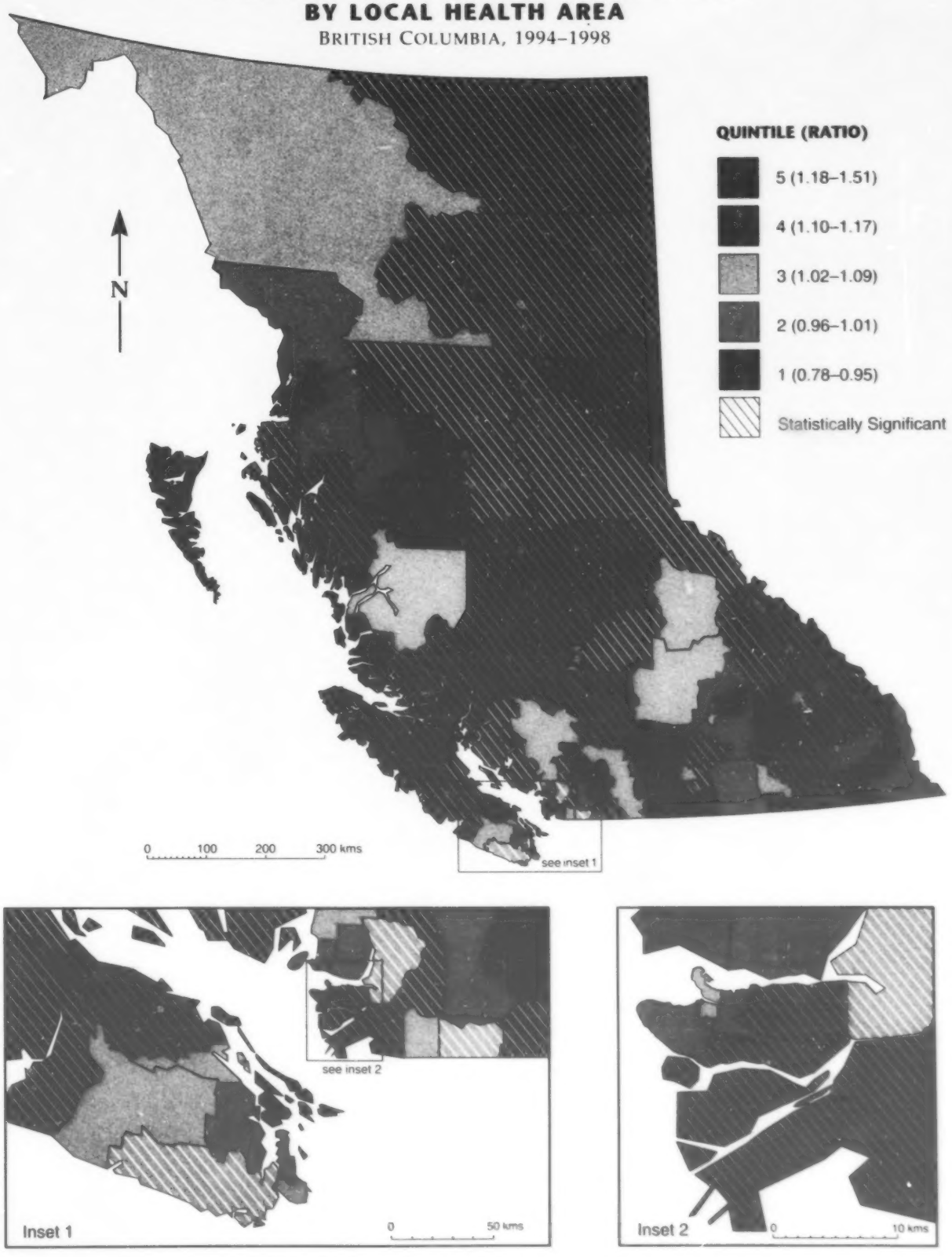
Local Health Area		1994–1998 Observed Births	Ratio (p)	Percent	Total Live Births	1999 Observed Births	Expected Births	Ratio (p)	Percent	Total Live Births
001	Fernie	232	0.97	31.1	745	43	41.8	1.03	33.1	130
002	Cranbrook	408	0.93	30.0	1,361	68	79.7	0.85	27.4	248
003	Kimberley	114	1.01	32.5	351	27	20.2	1.33	42.9	63
004	Windermere	174	1.20 *	38.6	451	19	24.7	0.77	24.7	77
005	Creston	242	1.20 *	38.7	626	53	46.9	1.13	36.3	146
006/007	Kootenay Lake/Nelson	535	1.21 *	39.0	1,373	86	78.7	1.09	35.1	245
009	Castlegar	230	1.09	35.2	654	42	39.2	1.07	34.4	122
010	Arrow Lakes	103	1.11	35.9	287	18	15.7	1.14	36.7	49
011	Trail	332	1.11	35.9	925	60	54.9	1.09	35.1	171
012/013	Grand Forks/Kettle Valley	163	0.96	30.9	527	27	29.9	0.90	29.0	93
014	Southern Okanagan	287	1.12	36.1	794	47	45.0	1.04	33.6	140
015	Penticton	669	1.10 *	35.5	1,885	113	108.9	1.04	33.3	339
016	Keremeos	92	1.18	38.2	241	8	12.9	0.62	20.0	40
017	Princeton	78	1.14	36.8	212	18	11.6	1.56	50.0	36
018	Golden	203	1.47 *	47.5	427	29	26.7	1.09	34.9	83
019	Revelstoke	131	0.79 *	25.6	512	21	22.8	0.92	29.6	71
020	Salmon Arm	421	0.97	31.4	1,341	70	78.1	0.90	28.8	243
021	Armstrong–Spallumcheen	150	1.02	32.8	457	26	28.9	0.90	28.9	90
022	Vernon	909	0.96	31.0	2,934	176	172.5	1.02	32.8	537
023	Central Okanagan	2,157	0.91 *	29.4	7,335	435	451.0	0.96	31.0	1,404
024	Kamloops	1,799	1.03	33.1	5,434	327	301.3	1.09	34.9	938
025	100 Mile House	291	1.17 *	37.6	773	52	44.3	1.17	37.7	138
026	North Thompson	102	1.09	35.3	289	15	16.4	0.92	29.4	51
027	Cariboo–Chilcotin	947	1.51 *	48.8	1,941	150	114.4	1.31 *	42.1	356
028	Quesnel	652	1.19 *	38.3	1,703	120	100.6	1.19	38.3	313
029	Lillooet	160	1.49 *	48.0	333	31	21.5	1.44	46.3	67
030	South Cariboo	169	1.20 *	38.6	438	23	21.5	1.07	34.3	67
031	Merritt	235	0.95	30.7	765	29	32.4	0.89	28.7	101
032	Hope	152	1.03	33.3	456	23	23.8	0.97	31.1	74
033	Chilliwack	1,583	1.10 *	35.5	4,465	294	274.7	1.07	34.4	855
034	Abbotsford	2,872	1.07 *	34.6	8,293	494	499.2	0.99	31.8	1,554
035	Langley	2,128	1.02	32.9	6,474	440	413.1	1.07	34.2	1,286
036	Surrey	6,694	0.82 *	26.4	25,371	1,356	1,539.8	0.88 *	28.3	4,793
037	Delta	1,582	0.86 *	27.6	5,735	309	343.1	0.90	28.9	1,068
038	Richmond	2,247	0.83 *	26.8	8,398	420	488.0	0.86 *	27.6	1,519
040	New Westminster	1,202	1.11 *	35.7	3,368	223	199.5	1.12	35.9	621
041	Burnaby	2,920	0.89 *	28.6	10,219	583	643.5	0.91 *	29.1	2,003
042	Maple Ridge	1,720	1.11 *	35.8	4,811	310	279.5	1.11	35.6	870
043	Coquitlam	4,003	1.08 *	34.9	11,472	765	697.8	1.10 *	35.2	2,172
044	North Vancouver	2,231	0.96	31.0	7,196	432	436.6	0.99	31.8	1,359
045	West Vancouver–Bowen Is.	513	0.99	31.9	1,608	102	98.9	1.03	33.1	308
046	Sunshine Coast	478	1.16 *	37.3	1,283	84	68.1	1.23	39.6	212
047	Powell River	384	1.14 *	36.9	1,040	48	49.8	0.96	31.0	155
048	Howe Sound	662	1.06	34.2	1,938	141	131.1	1.08	34.6	408
049	Bella Coola Valley	83	1.02	32.9	252	23	19.0	1.21	39.0	59
050	Queen Charlotte	153	1.10	35.6	430	22	19.6	1.12	36.1	61
051	Snow Country	25	0.98	31.6	79	4	3.2	1.25	40.0	10
052	Prince Rupert	447	0.91 *	29.2	1,530	70	70.0	1.00	32.1	218
053	Upper Skeena	169	1.20 *	38.8	436	31	23.5	1.32	42.5	73
054	Smithers	459	1.01	32.5	1,414	91	90.3	1.01	32.4	281
055/093	Burns Lake/Eutsuk	159	0.86	27.7	573	31	28.3	1.10	35.2	88
056	Nechako	516	1.10 *	35.6	1,450	103	75.2	1.37 *	44.0	234
057	Prince George	2,516	1.15 *	37.1	6,787	426	377.8	1.13 *	36.2	1,176
059	Peace River South	763	1.21 *	38.9	1,961	106	102.2	1.04	33.3	318
060	Peace River North	710	0.92 *	29.6	2,402	109	141.7	0.77 *	24.7	441
061	Greater Victoria	3,251	1.03	33.1	9,819	551	567.3	0.97	31.2	1,766
062	Sooke	1,104	1.07 *	34.7	3,186	188	179.6	1.05	33.6	559
063	Saanich	736	1.00	32.4	2,271	139	125.0	1.11	35.7	389
064	Gulf Islands	146	0.92	29.7	492	39	30.2	1.29	41.5	94
065	Cowichan	895	1.01	32.6	2,746	148	162.9	0.91	29.2	507
066	Lake Cowichan	116	1.09	35.3	329	20	19.9	1.00	32.3	62
067	Ladysmith	303	1.03	33.2	913	61	52.4	1.16	37.4	163
068	Nanaimo	1,912	1.26 *	40.7	4,695	382	272.7	1.40 *	45.0	849
069	Qualicum	557	1.20 *	38.6	1,444	129	84.8	1.52 *	48.9	264
070	Alberni	566	0.90 *	29.2	1,941	93	104.7	0.89	28.5	326
071	Courtenay	1,107	1.17 *	37.7	2,939	202	171.9	1.18 *	37.8	535
072/084	Campbell River/V.I. West	984	1.22 *	39.2	2,509	173	139.7	1.24 *	39.8	435
075	Mission	756	1.01	32.5	2,329	147	149.4	0.98	31.6	465
076	Agassiz–Harrison	151	1.14	36.7	411	19	23.5	0.81	26.0	73
077	Summerland	147	1.02	32.9	447	31	27.6	1.12	36.0	86
078	Enderby	117	0.86	27.7	423	17	20.6	0.83	26.6	64
080	Kitimat	300	1.21 *	39.1	768	41	45.9	0.89	28.7	143
081	Fort Nelson	149	0.78 *	25.2	592	22	30.2	0.73	23.4	94
083	Central Coast	61	1.30	42.1	145	13	10.0	1.31	41.9	31
085	Vancouver Island North	454	1.28 *	41.2	1,101	58	58.1	1.00	32.0	181
087/094	Stikine/Telegraph Creek	42	1.05	33.9	124	8	7.1	1.13	36.4	22
088	Terrace	552	1.01	32.4	1,703	103	96.4	1.07	34.3	300
092	Nishga	66	1.14	36.9	179	9	7.7	1.17	37.5	24
161	Vancouver City Centre	971	1.04	33.7	2,885	180	211.1	0.85 *	27.4	657
162	Vancouver Downtown E. Side	887	0.98	31.7	2,797	152	148.1	1.03	33.0	461
163	Vancouver North East	1,766	0.88 *	28.3	6,250	331	375.9	0.88 *	28.3	1,170
164	Vancouver West Side	1,542	0.97	31.2	4,949	310	336.4	0.92	29.6	1,047
165	Vancouver Midtown	1,888	0.98	31.6	5,963	318	348.2	0.91	29.3	1,084
166	Vancouver South	2,056	0.88 *	28.5	7,213	352	421.8	0.83 *	26.8	1,313
039	**VANCOUVER TOTAL**	**9,193**	**0.94 ***	**30.3**	**30,338**	**1,643**	**1,841.8**	**0.89 ***	**28.7**	**5,733**
	N.S.	111	–	–	359	–	–	–	–	–
	PROVINCIAL TOTAL	**73,132**	–	–	**226,758**	**13,409**	–	–	–	**41,739**

Note: The table reflects all information reported to the Agency on the Notice of Live Birth or Stillbirth form. Observed births denotes live births with at least one perinatal complication code in the range 760–779. *Statistical testing indicates that observed number of births with perinatal complications is significantly different from the expected ($p<0.05$, two tailed). Percent of observed births is based on total live births. Ratio – observed over the expected. LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not Stated. Non-residents are excluded.

FIGURE 14

PERINATAL COMPLICATIONS IN LIVE BIRTHS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1994–1998



Note: Ratio – Observed over the expected. Refer to Figure 1 to clarify geographical location of Local Health Areas.

HIGHLIGHTS TO TABLE 20/FIGURE 14

- Of the eight Local Health Areas (LHAs) with the statistically significant and high perinatal complication ratios in 1999 (number of births in parentheses), the five highest ratios were:

069	Qualicum	1.52	(129)
068	Nanaimo	1.40	(382)
056	Nechako	1.37	(103)
027	Cariboo–Chilcotin	1.31	(150)
072/084	Campbell River/V.I. West	1.24	(173)

  All above LHAs also had statistically significant and high ratios for the 1994–1998.

- There were seven LHAs with statistically significant and low perinatal complication ratios in 1999. The ratios for these LHAs (number of births in parentheses) were:

060	Peace River North	0.77	(109)
166	Vancouver South	0.83	(352)
161	Vancouver City Centre	0.85	(180)
038	Richmond	0.86	(420)
036	Surrey	0.88	(1,356)
163	Vancouver North East	0.88	(331)
041	Burnaby	0.91	(583)

  All of the above LHAs, with the exception of Vancouver City Centre, also had statistically significant and low ratios for 1994–1998.

- There were 28 LHAs with statistically significant and high perinatal complication ratios in 1994–1998. The five LHAs with the highest ratios, which were statistically significant (number of births in parentheses), were:

027	Cariboo–Chilcotin	1.51	(947)
029	Lillooet	1.49	(160)
018	Golden	1.47	(203)
085	Vancouver Island North	1.28	(454)
068	Nanaimo	1.26	(1,912)

- There were 12 LHAs with statistically significant and low perinatal complication ratios in 1994–1998. The five LHAs with the lowest ratios, which were statistically significant (number of births in parentheses), were:

081	Fort Nelson	0.78	(149)
019	Revelstoke	0.79	(131)
036	Surrey	0.82	(6,694)
038	Richmond	0.83	(2,247)
037	Delta	0.86	(1,582)

Death-related Statistics

Summary

Statistics arising from death events are presented in this section. Included are tables and figures containing information about deaths by age, gender and cause. Deaths are assigned to a Local Health Area (LHA) based on the usual residence of the decedent. Topics of particular interest are leading causes of death, infant mortality, alcohol-related, drug-induced and smoking-attributable causes, and deaths from AIDS/HIV infection, accidents, and violence. Mortality statistics are provided in terms of Age Standardized Mortality Rates (ASMR), Standardized Mortality Ratios (SMR), and Potential Years of Life Lost (PYLL). Standardized measures are used to compare deaths in different geographical areas by age, gender and cause. In addition, maps are provided to geographically illustrate various patterns of mortality in British Columbia.

Statistics from 1999 deaths are summarized below:

- There were 27,794 deaths recorded in the province to B.C. residents: 14,695 males and 13,099 females. Over three quarters of all deaths were seniors (age 65 or older), and the oldest age group (80 years of age or more) accounted for over four out of every ten deaths. There were 213 deaths to B.C. residents aged 100 or more; the oldest woman was 108 years old, and the oldest man was 108 years old.
- The Age Standardized Mortality Rate (ASMR) for all causes of death was 58.14 deaths per 10,000 standard population in 1999. The ASMR for males in 1999 was 73.53 and the ASMR for females was 46.11.
- There was an 8.3% decrease in deaths from AIDS and HIV infections, from 109 deaths in 1998 to 100 deaths in 1999. This was the fifth consecutive decrease since 1994.
- The five leading causes of death in 1999, which were the same as 1998, were cancers (malignant neoplasms), heart disease, cerebrovascular disease, pneumonia and accidents.
- More than one in four deaths in the province was due to cancer (malignant neoplasms) in 1999 (7,570 deaths). Since 1993, cancer has replaced heart disease as the leading cause of death for British Columbians. The Age Standardized Mortality Rate (ASMR) for cancer in 1999 was 16.28 deaths per 10,000 standard population, slightly lower than the five year (1994–1998) ASMR of 16.83.
- Heart disease was the second leading cause of death in 1999, accounting for one quarter of all deaths (6,980) and an ASMR of 14.18, a decrease from the ASMR of 15.76 for the 1994–1998 period.
- In 1999, there were 156 infant deaths (under one year of age) and 294 stillbirths. This was a decrease (10.3%) in the number of infant deaths and an increase (5.8%) of stillbirths compared to 1998 (174 infant deaths and 278 stillbirths). The number of stillbirths has exceeded the number of infant deaths each year since 1991 (see Table 1 and Table 4 for details).
- Perinatal complications were the cause of death for almost half of the infant deaths (77) and four fifths of all stillbirths (238) in 1999. The infant mortality rate for 1999 due to perinatal complications was 18.45 deaths per 10,000 live births, and the stillbirth rate for this cause was 56.62 per 10,000 total births.
- In 1999, babies born to mothers under 20 years of age had the highest infant mortality rate. There were 6.48 infant deaths per 1,000 live births for teenage mothers (age under 20).
- Premature deaths (age under 75), accounted for 11,217 out of 27,794 deaths in B.C. in 1999. The average years of life lost per death under 75 years of age was 16.5.
- There were 94 deaths in the 1–14 age group in 1999. Accidents remained the leading cause of death in this age group, with 32 deaths in 1999.
- There were 1,780 deaths from accidents and violence in 1999. Approximately one in four of these was due to suicide (421 deaths). Accidental falls (367) and motor vehicle accidents (353) accounted for one in five each, and accidental poisoning (298) accounted for one in six deaths.
- In 1999, there were 5,762 smoking-attributable deaths, and 1,832 deaths which were directly or indirectly related to alcohol in 1999. There were 385 drug-induced deaths including drug dependence, accidental drug poisonings and suicides involving drugs.

M121

IMPORTANT NOTE CONCERNING THE FOLLOWING PAGES

THE PAGES WHICH FOLLOW HAVE BEEN FILMED TWICE IN ORDER TO OBTAIN THE BEST REPRODUCTIVE QUALITY

USERS SHOULD CONSULT ALL THE PAGES REPRODUCED ON THE FICHE IN ORDER TO OBTAIN A COMPLETE READING OF THE TEXT.

REMARQUE IMPORTANTE CONCERNANT LES PAGES QUI SUIVENT

LES PAGES SUIVANTES ONT ÉTÉ REPRODUITES EN DOUBLE AFIN D'AMÉLIORER LA QUALITÉ DE REPRODUCTION

LES UTILISATEURS DOIVENT CONSULTER TOUTES LES PAGES REPRODUITES SUR LA FICHE AFIN D'OBTENIR LA LECTURE DU TEXTE INTÉGRAL

micromedia
a division of IHS Canada

20 Victoria Street
Toronto, Ontario M5C 2N8
Tel.: (416) 362-5211
Toll Free: 1-800-387-2689
Fax: (416) 362-6161
Email: info@micromedia.on.ca

TABLE 21
CAUSES OF DEATH BY GENDER AND AGE
BRITISH COLUMBIA, 1999

ICD9 Code	Causes of Death	Gender	Age Group (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total Number	Percent	ASMR
001–139	Infectious and parasitic diseases	M	4	1	1	–	–	–	73	79	66	46	270	1.8	1.28
		F	3	–	1	1	–	–	23	23	57	68	176	1.3	0.66
		T	7	1	2	1	–	–	96	102	123	114	446	1.6	0.96
140–239	Neoplasms	M	1	2	4	3	6	7	132	921	1,986	1,047	4,109	28.0	20.14
		F	–	3	3	2	4	6	147	840	1,516	1,077	3,598	27.5	13.95
		T	1	5	7	5	10	13	279	1,761	3,502	2,124	7,707	27.7	16.56
240–279	Endocrine/nutritional/metabolic diseases & immunity disorders	M	1	–	–	–	1	2	11	86	168	130	399	2.7	1.98
		F	–	3	1	2	2	–	6	35	165	189	403	3.1	1.43
		T	1	3	1	2	3	2	17	121	333	319	802	2.9	1.68
280–289	Diseases of blood and blood-forming organs	M	–	–	–	–	2	–	2	4	23	21	52	0.4	0.26
		F	1	–	–	–	–	–	1	5	12	33	52	0.4	0.18
		T	1	–	–	–	2	–	3	9	35	54	104	0.4	0.21
290–319	Mental disorders	M	–	–	–	–	–	–	11	42	80	189	322	2.2	1.64
		F	–	–	–	–	–	–	4	15	74	378	471	3.6	1.45
		T	–	–	–	–	–	–	15	57	154	567	793	2.9	1.56
320–389	Diseases of the nervous system and sense organs	M	1	–	2	1	1	3	8	35	139	136	326	2.2	1.65
		F	2	2	–	2	1	4	16	25	121	229	402	3.1	1.39
		T	3	2	2	3	2	7	24	60	260	365	728	2.6	1.50
390–459	Diseases of the circulatory system	M	–	–	1	–	4	8	82	658	2,057	2,347	5,157	35.1	26.07
		F	–	–	–	2	–	4	45	226	1,256	3,285	4,818	36.8	15.64
		T	–	–	1	2	4	12	127	884	3,313	5,632	9,975	35.9	20.18
460–519	Diseases of the respiratory system	M	–	–	–	1	1	1	22	115	585	905	1,630	11.1	8.38
		F	2	–	–	–	2	1	12	88	417	973	1,495	11.4	4.92
		T	2	–	–	1	3	2	34	203	1,002	1,878	3,125	11.2	6.28
520–579	Diseases of the digestive system	M	–	1	–	–	–	–	26	117	189	147	480	3.3	2.35
		F	–	–	–	–	–	–	15	83	140	256	494	3.8	1.74
		T	–	1	–	–	–	–	41	200	329	403	974	3.5	2.03
580–629	Diseases of the genitourinary system	M	–	–	–	–	–	–	5	15	70	124	214	1.5	1.11
		F	–	–	–	–	–	–	2	10	46	151	209	1.6	0.67
		T	–	–	–	–	–	–	7	25	116	275	423	1.5	0.85
630–676	Complications of pregnancy, childbirth and the puerperium	M	–	–	–	–	–	–	–	–	–	–	0	–	–
		F	–	–	–	–	–	–	–	–	–	–	0	–	–
		T	–	–	–	–	–	–	–	–	–	–	0	–	–
680–709	Diseases of the skin and subcutaneous tissue	M	–	–	–	–	–	–	–	–	7	5	12	0.1	0.06
		F	–	–	–	–	–	–	–	–	4	24	28	0.2	0.09
		T	–	–	–	–	–	–	–	–	11	29	40	0.1	0.08
710–739	Diseases of the musculoskeletal system and connective tissue	M	–	–	–	–	–	–	1	6	16	18	41	0.3	0.20
		F	–	–	–	–	–	–	3	10	30	41	84	0.6	0.30
		T	–	–	–	–	–	–	4	16	46	59	125	0.4	0.26
740–759	Congenital anomalies	M	13	3	1	2	–	1	7	8	9	5	49	0.3	0.26
		F	19	1	–	1	3	3	3	3	6	4	43	0.3	0.24
		T	32	4	1	3	3	4	10	11	15	9	92	0.3	0.25
760–779	Certain conditions originating in the perinatal period	M	49	1	–	–	–	1	–	–	–	–	51	0.3	0.33
		F	28	–	–	–	–	–	–	–	–	–	28	0.2	0.19
		T	77	1	–	–	–	1	–	–	–	–	79	0.3	0.26
780–799	Symptoms, signs and ill-defined conditions	M	16	5	1	2	10	17	109	83	56	46	345	2.3	1.72
		F	14	1	–	1	9	9	42	43	41	96	256	2.0	1.05
		T	30	6	1	3	19	26	151	126	97	142	601	2.2	1.39
E800–E999	External causes	M	2	3	7	18	62	95	440	329	142	140	1,238	8.4	6.09
		F	–	7	–	1	28	23	121	102	71	189	542	4.1	2.20
		T	2	10	7	19	90	118	561	431	213	329	1,780	6.4	4.11
	All causes	**M**	**87**	**16**	**17**	**27**	**87**	**135**	**929**	**2,498**	**5,593**	**5,306**	**14,695**	**100.0**	**73.53**
		F	**69**	**17**	**5**	**12**	**49**	**50**	**440**	**1,508**	**3,956**	**6,993**	**13,099**	**100.0**	**46.11**
	PROVINCIAL TOTAL	**T**	**156**	**33**	**22**	**39**	**136**	**185**	**1,369**	**4,006**	**9,549**	**12,299**	**27,794**	**100.0**	**58.14**

Note: ASMR – Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census).
Reports before 1998 used a different standard population, therefore ASMRs should not be compared to pre-1998 reports.
Total percentage may not add up to 100 due to rounding.
++ denotes the number of cases is 5 or less.
Non-residents and gender unknown are excluded.

TABLE 21
CAUSES OF DEATH BY GENDER AND AGE
BRITISH COLUMBIA, 1999

ICD9 Code	Causes of Death	Gender	Age Group (in Years)										Total		
			<1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Number	Percent	ASMR
001–139	Infectious and parasitic diseases	M	4	1	1	–	–	–	73	79	66	46	270	1.8	1.28
		F	3	–	1	1	–	–	23	23	57	68	176	1.3	0.66
		T	7	1	2	1	–	–	96	102	123	114	446	1.6	0.96
140–239	Neoplasms	M	1	2	4	3	6	7	132	921	1,986	1,047	4,109	28.0	20.14
		F	–	3	3	2	4	6	147	840	1,516	1,077	3,598	27.5	13.95
		T	1	5	7	5	10	13	279	1,761	3,502	2,124	7,707	27.7	16.56
240–279	Endocrine/nutritional/metabolic diseases & immunity disorders	M	1	–	–	–	1	2	11	86	168	130	399	2.7	1.98
		F	–	3	1	2	2	–	6	35	165	189	403	3.1	1.43
		T	1	3	1	2	3	2	17	121	333	319	802	2.9	1.68
280–289	Diseases of blood and blood-forming organs	M	–	–	–	–	2	–	2	4	23	21	52	0.4	0.26
		F	1	–	–	–	–	–	1	5	12	33	52	0.4	0.18
		T	1	–	–	–	2	–	3	9	35	54	104	0.4	0.21
290–319	Mental disorders	M	–	–	–	–	–	–	11	42	80	189	322	2.2	1.64
		F	–	–	–	–	–	–	4	15	74	378	471	3.6	1.45
		T	–	–	–	–	–	–	15	57	154	567	793	2.9	1.56
320–389	Diseases of the nervous system and sense organs	M	1	–	2	1	1	3	8	35	139	136	326	2.2	1.65
		F	2	2	–	2	1	4	16	25	121	229	402	3.1	1.39
		T	3	2	2	3	2	7	24	60	260	365	728	2.6	1.50
390–459	Diseases of the circulatory system	M	–	–	1	–	4	8	82	658	2,057	2,347	5,157	35.1	26.07
		F	–	–	–	2	–	4	45	226	1,256	3,285	4,818	36.8	15.64
		T	–	–	1	2	4	12	127	884	3,313	5,632	9,975	35.9	20.18
460–519	Diseases of the respiratory system	M	–	–	–	1	1	1	22	115	585	905	1,630	11.1	8.38
		F	2	–	–	–	2	1	12	88	417	973	1,495	11.4	4.92
		T	2	–	–	1	3	2	34	203	1,002	1,878	3,125	11.2	6.28
520–579	Diseases of the digestive system	M	–	1	–	–	–	–	26	117	189	147	480	3.3	2.35
		F	–	–	–	–	–	–	15	83	140	256	494	3.8	1.74
		T	–	1	–	–	–	–	41	200	329	403	974	3.5	2.03
580–629	Diseases of the genitourinary system	M	–	–	–	–	–	–	5	15	70	124	214	1.5	1.11
		F	–	–	–	–	–	–	2	10	46	151	209	1.6	0.67
		T	–	–	–	–	–	–	7	25	116	275	423	1.5	0.85
630–676	Complications of pregnancy, childbirth and the puerperium	M	–	–	–	–	–	–	–	–	–	–	0	–	–
		F	–	–	–	–	–	–	–	–	–	–	0	–	–
		T	–	–	–	–	–	–	–	–	–	–	0	–	–
680–709	Diseases of the skin and subcutaneous tissue	M	–	–	–	–	–	–	–	–	7	5	12	0.1	0.06
		F	–	–	–	–	–	–	–	–	4	24	28	0.2	0.09
		T	–	–	–	–	–	–	–	–	11	29	40	0.1	0.08
710–739	Diseases of the musculoskeletal system and connective tissue	M	–	–	–	–	–	–	1	6	16	18	41	0.3	0.20
		F	–	–	–	–	–	–	3	10	30	41	84	0.6	0.30
		T	–	–	–	–	–	–	4	16	46	59	125	0.4	0.26
740–759	Congenital anomalies	M	13	3	1	2	–	1	7	8	9	5	49	0.3	0.26
		F	19	1	–	1	3	3	3	3	6	4	43	0.3	0.24
		T	32	4	1	3	3	4	10	11	15	9	92	0.3	0.25
760–779	Certain conditions originating in the perinatal period	M	49	1	–	–	–	1	–	–	–	–	51	0.3	0.33
		F	28	–	–	–	–	–	–	–	–	–	28	0.2	0.19
		T	77	1	–	–	–	1	–	–	–	–	79	0.3	0.26
780–799	Symptoms, signs and ill-defined conditions	M	16	5	1	2	10	17	109	83	56	46	345	2.3	1.72
		F	14	1	–	1	9	9	42	43	41	96	256	2.0	1.05
		T	30	6	1	3	19	26	151	126	97	142	601	2.2	1.39
E800–E999	External causes	M	2	3	7	18	62	95	440	329	142	140	1,238	8.4	6.09
		F	–	7	–	1	28	23	121	102	71	189	542	4.1	2.20
		T	2	10	7	19	90	118	561	431	213	329	1,780	6.4	4.11
	All causes	**M**	**87**	**16**	**17**	**27**	**87**	**135**	**929**	**2,498**	**5,593**	**5,306**	**14,695**	**100.0**	**73.53**
		F	**69**	**17**	**5**	**12**	**49**	**50**	**440**	**1,508**	**3,956**	**6,993**	**13,099**	**100.0**	**46.11**
	PROVINCIAL TOTAL	**T**	**156**	**33**	**22**	**39**	**136**	**185**	**1,369**	**4,006**	**9,549**	**12,299**	**27,794**	**100.0**	**58.14**

Note: ASMR – Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census).
Reports before 1998 used a different standard population, therefore ASMRs should not be compared to pre-1998 reports.
Total percentage may not add up to 100 due to rounding.
++ denotes the number of cases is 5 or less.
Non-residents and gender unknown are excluded.

HIGHLIGHTS TO TABLE 21

- There were 27,794 deaths in British Columbia in 1999, only 11 fewer deaths (27,805) than in 1998. More than one half of all deaths in 1999 (52.9%) were males (14,695 deaths), and 13,099 deaths were females. Over three quarters (78.6%) of all 1999 deaths were seniors (age 65 or older), and the oldest age group (80 years of age or more) accounted for more than four out of every ten deaths (44.3%).
- The Age Standardized Mortality Rate (ASMR) for all causes of death in 1999 was 58.14 per 10,000 standard population. The 1999 ASMR for males was 73.53 and for females it was 46.11. The 1995–1999 life expectancy at birth (shown in Appendix 1) was 79.2 years for both genders combined; the life expectancy for men was 76.5 years compared to 82.0 years for women.
- Diseases of the circulatory system were responsible for more than a third (35.9%) of all deaths in 1999 (9,975). It was the leading cause of death of the elderly aged 80 or older (5,632 deaths), and accounted for more than half (56.5%) of the deaths due to circulatory system diseases. The ASMR for circulatory system diseases was 20.18 per 10,000 standard population in 1999. For deaths due to sub-categories of circulatory system diseases, please refer to the Information Box, *Deaths due to Circulatory System Diseases by Gender.*
- More than one in four deaths (27.7%) in 1999 was due to neoplasms, including cancers and non-malignant neoplasms (7,707 deaths). Malignant neoplasms were the leading cause of death in the 45–64 and 65–79 age groups. The total ASMR for neoplasms was 16.56 per 10,000 standard population. For deaths due to sub-categories of cancers, please refer to the Information Box, *Deaths due to Cancers (Malignant Neoplasms) by Gender.*
- In 1999, one in nine deaths (11.2%) was due to diseases of the respiratory system (3,125). These deaths, including pneumonia/influenza and chronic lung disease, tend to occur in older age groups. In 1999, 92.2 % of deaths from respiratory system diseases were seniors (age 65 and over). The ASMR for respiratory system diseases was 6.28 per 10,000 standard population.
- External causes, also referred to as accidents and violence, claimed 1,780 lives in 1999, of which seven out of every ten deaths (69.6%) were males. External causes claimed many young lives, in contrast to the older age profile of deaths from natural causes. Accidents and violence was the leading cause of death category in all age groups under 45 years of age, except for infants (under one year of age) where the most common cause of death was certain conditions originating in the perinatal period.

TABLE 22
TWELVE LEADING CAUSES OF DEATH[1]
BRITISH COLUMBIA, 1994–1998 AND 1999

Cause of Death (ICD9 Code)	1994–1998				1999			
	Number	Rank	ASMR	Rank	Number	Rank	ASMR	Rank
Cancers (malignant neoplasms) (140–208)	36,833	1	16.83	1	7,570	1	16.28	1
Heart disease* (391–398, 402, 404, 410–429)	34,834	2	15.76	2	6,980	2	14.18	2
Cerebrovascular disease (430–438)	10,991	3	4.91	3	2,276	3	4.55	3
Pneumonia (480–486)	5,927	5	2.63	5	1,338	4	2.63	5
Accidents** (E800–E949, E970–E978, E990–E999)	7,788	4	3.87	4	1,283	5	2.93	4
Chronic pulmonary disease (491–492, 496)	5,432	6	2.45	6	1,198	6	2.46	6
Alzheimer's disease and senile dementias (290, 298.9, 331.0)	3,581	7	1.57	7	894	7	1.73	7
Diabetes (250)	2,880	8	1.32	8	601	8	1.26	8
Diseases of arteries (440–448)	2,841	9	1.28	10	552	9	1.12	9
Suicide (E950–E959)	2,558	10	1.29	9	421	10	0.99	10
Kidney disease (580–593)	1,540	12	0.69	12	324	11	0.65	12
Chronic liver disease (571, 572.8, 572.9, 573.0)	1,551	11	0.74	11	300	12	0.66	11
Other	18,581		8.77		4,057		8.71	
TOTAL (All causes of death)	**134,493**		**62.14**		**27,794**		**58.14**	

Note: [1]Leading causes of death relate to categories most often queried at the Vital Statistics Agency.
ASMR – Age Standardized Mortality Rate per 10,000 standard population.
Reports before 1998 used a different standard population, therefore ASMRs should not be compared to pre-1998 reports.
The number of deaths in 1999 determined the order in which the causes of death are presented in the table.
* Excludes ICD9 3?2.9 code.
** Excludes suicide, homicide and deaths undetermined whether accidental or intentional.
Non-residents and gender unknown are excluded.

TABLE 22
TWELVE LEADING CAUSES OF DEATH[1]
BRITISH COLUMBIA, 1994–1998 AND 1999

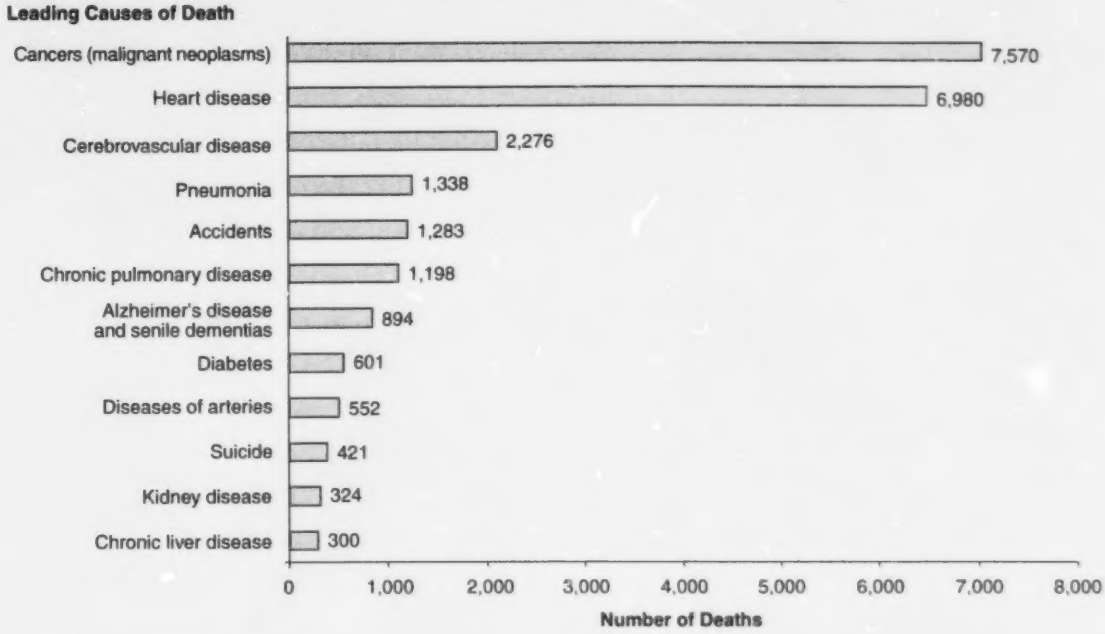
Cause of Death (ICD9 Code)	1994–1998				1999			
	Number	Rank	ASMR	Rank	Number	Rank	ASMR	Rank
Cancers (malignant neoplasms) (140–208)	**36,833**	**1**	**16.83**	**1**	**7,570**	**1**	**16.28**	**1**
Heart disease* (391–398, 402, 404, 410–429)	34,834	2	15.76	2	6,980	2	14.18	2
Cerebrovascular disease (430–438)	10,991	3	4.91	3	2,276	3	4.55	3
Pneumonia (480–486)	5,927	5	2.63	5	1,338	4	2.63	5
Accidents** (E800–E949, E970–E978, E990–E999)	7,788	4	3.87	4	1,283	5	2.93	4
Chronic pulmonary disease (491–492, 496)	5,432	6	2.45	6	1,198	6	2.46	6
Alzheimer's disease and senile dementias (290, 298.9, 331.0)	3,581	7	1.57	7	894	7	1.73	7
Diabetes (250)	2,880	8	1.32	8	601	8	1.26	8
Diseases of arteries (440–448)	2,841	9	1.28	10	552	9	1.12	9
Suicide (E950–E959)	2,558	10	1.29	9	421	10	0.99	10
Kidney disease (580–593)	1,540	12	0.69	12	324	11	0.65	12
Chronic liver disease (571, 572.8, 572.9, 573.0)	1,551	11	0.74	11	300	12	0.66	11
Other	18,581		8.77		4,057		8.71	
TOTAL (All causes of death)	**134,493**		**62.14**		**27,794**		**58.14**	

Note: [1]Leading causes of death relate to categories most often queried at the Vital Statistics Agency.
ASMR – Age Standardized Mortality Rate per 10,000 standard population.
Reports before 1998 used a different standard population, therefore ASMRs should not be compared to pre-1998 reports.
The number of deaths in 1999 determined the order in which the causes of death are presented in the table.
* Excludes ICD9 392.9 code.
** Excludes suicide, homicide and deaths undetermined whether accidental or intentional.
Non-residents and gender unknown are excluded.

FIGURE 15

TWELVE LEADING CAUSES OF DEATH

BRITISH COLUMBIA, 1999



Note: Leading causes of death relate to categories most often queried at the Vital Statistics Agency.

HIGHLIGHTS TO TABLE 22/FIGURE 15

- The twelve leading causes of death for British Columbia, presented in this table, are based on the categories most frequently queried at the Vital Statistics Agency. Since 1993, cancers, heart disease and cerebrovascular disease have been the top three causes of death in the province, when ranked either by number of deaths or by age standardized mortality rates (ASMR). These three leading causes were responsible sixty percent of the deaths in the province in 1999. The order of leading causes shown in this table is ranked by number of deaths; the only change in the rankings from last year's annual report was pneumonia which went from fifth to fourth place, switching places with accidental deaths.
- More than one in four deaths (27.2%) in the province in 1999 were due to cancer (7,570 deaths). The ASMR for cancer in 1999 was 16.28 deaths per 10,000 standard population, slightly lower than the five year (1994–1998) ASMR of 16.83. For deaths due to sub-categories of cancers, please refer to the Information Box, *Deaths due to Cancers (Malignant Neoplasms) by Gender*.
- Heart disease was the second leading cause of death in 1999, accounting for more than one quarter (25.1%) of all deaths (6,980) with an ASMR of 14.18, a decrease from 15.76 for the 1994–1998 period. Until 1993, heart disease was the number one leading cause of death in the province (as shown in previous annual reports).
- The third leading cause of death was cerebrovascular disease (2,276 deaths) causing one in twelve deaths (8.2%). The 1999 ASMR for cerebrovascular disease (4.55) was slightly below the 1994–1998 ASMR (4.91).
- Pneumonia was the fourth leading cause of death in 1999 (1,338 deaths), up from fifth place in 1998. The ASMR for pneumonia was 2.63 in both 1999 and the 1994–1998 period.
- Deaths from accidents were the fifth leading cause of death in 1999 (1,283 deaths), down from fourth place in 1998. The 1999 ASMR for accidents was 2.93, considerably lower than the 1994–1998 ASMR of 3.87.

TABLE 23
LEADING CAUSES OF DEATH BY AGE
BRITISH COLUMBIA, 1999

Cause of Death	ICD9 Code(s)	Males		Females		Total	
		Number	Percent	Number	Percent	Number	Percent
Under 1 Year Old							
1. Congenital anomalies	740–759	13	14.9	19	27.5	32	20.5
2. Perinatal respiratory conditions	768–770	19	21.8	9	13.0	28	17.9
3. Maternal conditions/complications of labour and delivery	760–763	13	14.9	11	15.9	24	15.4
4. Infectious/parasitic diseases including perinatal infections	001–139, 771	7	8.0	5	7.2	12	7.7
5. Sudden infant death syndrome (SIDS)	798.0	8	9.2	2	2.9	10	6.4
Other causes		27	31.0	23	33.3	50	32.1
All causes		87	100.0	69	100.0	156	100.0
1–14 Years Old							
1. Accidents(*)	E800–E949, E970–E978, E990–E999	25	41.7	7	20.6	32	34.0
2. Cancers (malignant neoplasms)	140–208	8	13.3	8	23.5	16	17.0
3. Congenital anomalies	740–759	6	10.0	2	5.9	8	8.5
4. Nervous system disease	320–389	3	5.0	4	11.8	7	7.4
5. Endocrine/nutritional/metabolic	240–279	–	–	6	17.6	6	6.4
Other causes		18	30.0	7	20.6	25	26.6
All causes		60	100.0	34	100.0	94	100.0
15–24 Years Old							
1. Accidents(*)	E800–E949, E970–E978, E990–E999	111	50.0	38	38.4	149	46.4
2. Suicide	E950–E959	35	15.8	8	8.1	43	13.4
3. Cancers (malignant neoplasms)	140–208	13	5.9	10	10.1	23	7.2
4. Homicide	E960–E969	8	3.6	4	4.0	12	3.7
5. Nervous system disease	320–389	4	1.8	5	5.1	9	2.8
5. Cardiovascular disease	391–429	8	3.6	1	1.0	9	2.8
Other causes		43	19.4	33	33.3	76	23.7
All causes		222	100.0	99	100.0	321	100.0
25–44 Years Old							
1. Accidents(*)	E800–E949, E970–E978, E990–E999	279	30.0	90	20.5	369	27.0
2. Cancers (malignant neoplasms)	140–208	127	13.7	145	33.0	272	19.9
3. Suicide	E950–E959	142	15.3	24	5.5	166	12.1
4. Cardiovascular disease	391–429	73	7.9	23	5.2	96	7.0
5. Infectious/parasitic diseases	001–139	65	7.0	28	6.4	93	6.8
Other causes		243	26.2	130	29.5	373	27.2
All causes		929	100.0	440	100.0	1,369	100.0
45–64 Years Old							
1. Cancers (malignant neoplasms)	140–208	904	36.2	832	55.2	1,736	43.3
2. Cardiovascular disease	391–429	542	21.7	145	9.6	687	17.1
3. Accidents(*)	E800–E949, E970–E978, E990–E999	204	8.2	56	3.7	260	6.5
4. Respiratory disease	460–519	115	4.6	88	5.8	203	5.1
5. Suicide	E950–E959	112	4.5	34	2.3	146	3.6
Other causes		621	24.9	353	23.4	974	24.3
All causes		2,498	100.0	1,508	100.0	4,006	100.0

(concluded on page 59)

TABLE 23 – *concluded*

LEADING CAUSES OF DEATH BY AGE

BRITISH COLUMBIA, 1999

Cause of Death	ICD9 Code(s)	Males		Females		Total	
		Number	Percent	Number	Percent	Number	Percent
65–84 Years Old							
1. Cancers (malignant neoplasms)	140–208	2,492	31.8	1,984	32.0	4,476	31.9
2. Cardiovascular disease	391–429	2,243	28.6	1,492	24.1	3,735	26.6
3. Respiratory disease	460–519	936	11.9	695	11.2	1,631	11.6
4. Cerebrovascular disease	430–438	567	7.2	600	9.7	1,167	8.3
5. Digestive system disease	520–579	248	3.2	218	3.5	466	3.3
Other causes		1,359	17.3	1,211	19.5	2,570	18.3
All causes		7,845	100.0	6,200	100.0	14,045	100.0
85 Years and Older							
1. Cardiovascular disease	391–429	991	32.4	1,574	33.1	2,565	32.9
2. Respiratory disease	460–519	554	18.1	695	14.6	1,249	16.0
3. Cancers (malignant neoplasms)	140–208	498	16.3	548	11.5	1,046	13.4
4. Cerebrovascular disease	430–438	318	10.4	608	12.8	926	11.9
5. Alzheimer disease and presenile dementias	290, 298.9, 331.0	145	4.7	357	7.5	502	6.4
Other causes		548	17.9	967	20.4	1,515	19.4
All causes		3,054	100.0	4,749	100.0	7,803	100.0

Note: *Excludes suicide, homicide and deaths undetermined whether accidental or intentional.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.

HIGHLIGHTS TO TABLE 23

- There were 156 infant deaths (under one year of age) in 1999, a 10.3% decrease from 174 deaths in 1998 (Table 4). Congenital anomalies were still the leading cause of infant deaths (32). At the time this report was prepared, 10 deaths from Sudden Infant Death Syndrome (SIDS) were recorded for 1999.
- There were 94 deaths of children in the 1–14 age group in 1999. Accidents remained the leading cause of death in this age group, with 32 deaths in 1999, more than three quarters of which were young boys (78.1%). In second place, cancers claimed 16 young lives.
- Accidents were responsible for 46.4% (149 deaths) of the 321 deaths in the 15–24 age group. Violence claimed one in six deaths (17.1%) in this age group; there were 43 suicides (the second leading cause of death) and 12 homicides (in fourth place). Almost four fifths (78.2%) of the deaths from violence in the 15–24 age group were young men.
- In the 25–44 age group, there were 1,369 deaths in 1999. For men in this age group, the leading cause of death was accidents (279 deaths), followed by suicide (142) and cancers (127). For women in this age group, cancer was the leading cause of death (145 deaths, including 52 from breast cancer – see Appendix 2), followed by accidents (90).
- The leading causes of death in the 45–64 age group were cancers (1,736 deaths), cardiovascular diseases (687), and accidents (260). More than a third of the male deaths (36.2%) were from cancer (904 deaths); the major cancer for men's deaths was lung cancer (291 deaths) (see Appendix 2). Of female deaths (1,508) in this age group, 55.2% were from cancers (832), particularly lung cancer (238) and breast cancer (189) (see Appendix 2).
- Cancers, cardiovascular diseases, and respiratory diseases were the leading causes of death for both men and women in the 65–84 age group in 1999.
- The leading causes of death in the 85 and over age group, both genders combined, were cardiovascular diseases, respiratory diseases, and cancers. Deaths from cardiovascular diseases (2,565) accounted for a third (32.9%) of the 7,803 deaths in this age group.

TABLE 23
LEADING CAUSES OF DEATH BY AGE
BRITISH COLUMBIA, 1999

Cause of Death	ICD9 Code(s)	Males		Females		Total	
		Number	Percent	Number	Percent	Number	Percent
Under 1 Year Old							
1. Congenital anomalies	740–759	13	14.9	19	27.5	32	20.5
2. Perinatal respiratory conditions	768–770	19	21.8	9	13.0	28	17.9
3. Maternal conditions/complications of labour and delivery	760–763	13	14.9	11	15.9	24	15.4
4. Infectious/parasitic diseases including perinatal infections	001–139, 771	7	8.0	5	7.2	12	7.7
5. Sudden infant death syndrome (SIDS)	798.0	8	9.2	2	2.9	10	6.4
Other causes		27	31.0	23	33.3	50	32.1
All causes		87	100.0	69	100.0	156	100.0
1–14 Years Old							
1. Accidents(*)	E800–E949, E970–E978, E990–E999	25	41.7	7	20.6	32	34.0
2. Cancers (malignant neoplasms)	140–208	8	13.3	8	23.5	16	17.0
3. Congenital anomalies	740–759	6	10.0	2	5.9	8	8.5
4. Nervous system disease	320–389	3	5.0	4	11.8	7	7.4
5. Endocrine/nutritional/metabolic	240–279	–	–	6	17.6	6	6.4
Other causes		18	30.0	7	20.6	25	26.6
All causes		60	100.0	34	100.0	94	100.0
15–24 Years Old							
1. Accidents(*)	E800–E949, E970–E978, E990–E999	111	50.0	38	38.4	149	46.4
2. Suicide	E950–E959	35	15.8	8	8.1	43	13.4
3. Cancers (malignant neoplasms)	140–208	13	5.9	10	10.1	23	7.2
4. Homicide	E960–E969	8	3.6	4	4.0	12	3.7
5. Nervous system disease	320–389	4	1.8	5	5.1	9	2.8
5. Cardiovascular disease	391–429	8	3.6	1	1.0	9	2.8
Other causes		43	19.4	33	33.3	76	23.7
All causes		222	100.0	99	100.0	321	100.0
25–44 Years Old							
1. Accidents(*)	E800–E949, E970–E978, E990–E999	279	30.0	90	20.5	369	27.0
2. Cancers (malignant neoplasms)	140–208	127	13.7	145	33.0	272	19.9
3. Suicide	E950–E959	142	15.3	24	5.5	166	12.1
4. Cardiovascular disease	391–429	73	7.9	23	5.2	96	7.0
5. Infectious/parasitic diseases	001–139	65	7.0	28	6.4	93	6.8
Other causes		243	26.2	130	29.5	373	27.2
All causes		929	100.0	440	100.0	1,369	100.0
45–64 Years Old							
1. Cancers (malignant neoplasms)	140–208	904	36.2	832	55.2	1,736	43.3
2. Cardiovascular disease	391–429	542	21.7	145	9.6	687	17.1
3. Accidents(*)	E800–E949, E970–E978, E990–E999	204	8.2	56	3.7	260	6.5
4. Respiratory disease	460–519	115	4.6	88	5.8	203	5.1
5. Suicide	E950–E959	112	4.5	34	2.3	146	3.6
Other causes		621	24.9	353	23.4	974	24.3
All causes		2,498	100.0	1,508	100.0	4,006	100.0

(concluded on page 59)

TABLE 23 – *concluded*

LEADING CAUSES OF DEATH BY AGE

BRITISH COLUMBIA, 1999

Cause of Death	ICD9 Code(s)	Males		Females		Total	
		Number	Percent	Number	Percent	Number	Percent
65–84 Years Old							
1. Cancers (malignant neoplasms)	140–208	2,492	31.8	1,984	32.0	4,476	31.9
2. Cardiovascular disease	391–429	2,243	28.6	1,492	24.1	3,735	26.6
3. Respiratory disease	460–519	936	11.9	695	11.2	1,631	11.6
4. Cerebrovascular disease	430–438	567	7.2	600	9.7	1,167	8.3
5. Digestive system disease	520–579	248	3.2	218	3.5	466	3.3
Other causes		1,359	17.3	1,211	19.5	2,570	18.3
All causes		7,845	100.0	6,200	100.0	14,045	100.0
85 Years and Older							
1. Cardiovascular disease	391–429	991	32.4	1,574	33.1	2,565	32.9
2. Respiratory disease	460–519	554	18.1	695	14.6	1,249	16.0
3. Cancers (malignant neoplasms)	140–208	498	16.3	548	11.5	1,046	13.4
4. Cerebrovascular disease	430–438	318	10.4	608	12.8	926	11.9
5. Alzheimer disease and presenile dementias	290, 298.9, 331.0	145	4.7	357	7.5	502	6.4
Other causes		548	17.9	967	20.4	1,515	19.4
All causes		3,054	100.0	4,749	100.0	7,803	100.0

Note: *Excludes suicide, homicide and deaths undetermined whether accidental or intentional.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.

HIGHLIGHTS TO TABLE 23

- There were 156 infant deaths (under one year of age) in 1999, a 10.3% decrease from 174 deaths in 1998 (Table 4). Congenital anomalies were still the leading cause of infant deaths (32). At the time this report was prepared, 10 deaths from Sudden Infant Death Syndrome (SIDS) were recorded for 1999.
- There were 94 deaths of children in the 1–14 age group in 1999. Accidents remained the leading cause of death in this age group, with 32 deaths in 1999, more than three quarters of which were young boys (78.1%). In second place, cancers claimed 16 young lives.
- Accidents were responsible for 46.4% (149 deaths) of the 321 deaths in the 15–24 age group. Violence claimed one in six deaths (17.1%) in this age group; there were 43 suicides (the second leading cause of death) and 12 homicides (in fourth place). Almost four fifths (78.2%) of the deaths from violence in the 15–24 age group were young men.
- In the 25–44 age group, there were 1,369 deaths in 1999. For men in this age group, the leading cause of death was accidents (279 deaths), followed by suicide (142) and cancers (127). For women in this age group, cancer was the leading cause of death (145 deaths, including 52 from breast cancer – see Appendix 2), followed by accidents (90).
- The leading causes of death in the 45–64 age group were cancers (1,736 deaths), cardiovascular diseases (687), and accidents (260). More than a third of the male deaths (36.2%) were from cancer (904 deaths); the major cancer for men's deaths was lung cancer (291 deaths) (see Appendix 2). Of female deaths (1,508) in this age group, 55.2% were from cancers (832), particularly lung cancer (238) and breast cancer (189) (see Appendix 2).
- Cancers, cardiovascular diseases, and respiratory diseases were the leading causes of death for both men and women in the 65–84 age group in 1999.
- The leading causes of death in the 85 and over age group, both genders combined, were cardiovascular diseases, respiratory diseases, and cancers. Deaths from cardiovascular diseases (2,565) accounted for a third (32.9%) of the 7,803 deaths in this age group.

VITAL STATISTICS INFORMATION BOX

LEADING CAUSES OF DEATH BY GENDER
BRITISH COLUMBIA, 1999

Leading Causes of Death	ICD9 Codes	Total Deaths		Males		Females	
		Number	Rank	Number	Rank	Number	Rank
Ischaemic heart disease	410–414	4,820	1	2,794	1	2,026	1
Cerebrovascular diseases	430–438	2,276	2	982	3	1,294	2
Lung cancer	162	1,997	3	1,134	2	863	3
Pneumonia and influenza	480–487	1454	4	719	4	735	4
Chronic airways obstruction	496	1026	5	585	5	441	6
Heart failure	428	727	6	310	10	417	7
Intestinal and rectal cancer	152–154	702	7	392	7	310	9
Senile and presenile dementia	290, 298.9	622	8	215	16	407	8
Diabetes mellitus	250	601	9	317	9	284	11
Female breast cancer	174	575	10	–	–	575	5
Cardiac dysrhythmias	427	528	11	224	14	304	10
Prostate cancer	185	503	12	503	6	–	–
Lymph system cancer	200–203	476	13	262	11	214	12
Suicide	E950–E959	421	14	337	8	84	27
Pancreatic cancer	157	419	15	219	15	200	13
Accidental falls	E833–E835,E880–E888	367	16	194	17	173	16
Motor vehicle accidents	E810–E825,E929.0	356	17	247	12	109	22
Accidental poisoning	E850–E869	298	18	227	13	71	35
Nephritis, nephrotic syndrome and nephrosis	580–589	297	19	158	20	139	17
Alzheimer's diseases	331.0	272	20	92	31	180	15
Bronchitis, emphysema and asthma	490–493	261	21	128	26	133	18
Leukaemias	204–208	259	22	137	24	122	19
Aortic aneurysm	441	256	23*	148	21	108	23
Chronic liver disease and cirrhosis	571	256	23*	171	18	85	26
Cardiomyopathy	425	246	25	164	19	82	28
Liver, gallbladder and bile duct cancers	155–156	225	26	135	25	90	24*
Stomach cancer	151	217	27	127	27	90	24*
Hypertensive disease	401–405	204	28	88	32*	116	20*
Bladder cancer	188	203	29	142	22*	61	37
Ovarian cancer	183	199	30	–	–	199	14
Esophageal cancer	150	192	31	142	22*	50	39
Kidney cancer	189	188	32	120	28	68	36
Parkinson's disease	332	176	33*	96	30	80	29
Brain cancer	191	176	33*	99	29	77	30*
Septicaemia	038	155	35	78	35	77	30*
Atherosclerosis	440	148	36	73	37	75	34
Gastrointestinal haemorrhage	578	133	37	56	39	77	30*
Lip, oral cavity and pharynx cancer	140–149	124	38	84	34	40	42
Noninfective enteritis and colitis	555–558	123	39	46	40*	77	30*
Uterine cancer (all parts)	179–182	116	40	–	–	116	20*
Pulmonary heart disease	415–417	100	41*	46	40*	54	38
AIDS / HIV infections	042–044	100	41*	88	32*	12	52
Alcoholic psychoses, alcohol dependence syndrome and nondependent abuse of alcohol	291,303,305.0	98	43	77	36	21	48
Malignant melanoma of skin	172	95	44	66	38	29	45
Urinary tract infection, not otherwise specified	599.0	77	45	28	46*	49	40
Peptic ulcers	531–534	75	46	36	43	39	43
Fluid, electrolyte and acid-base balance	276	62	47*	20	50	42	41
Anterior horn cell disease	335	62	47*	35	44	27	46
Anaemias	280–285	53	49	27	48	26	47
Accidental drowning and watercraft accidents	E830,E832,E910	48	50	37	42	11	53*

Note: * Indicates that two causes of death share the same rank.
The Statistics Canada publication, *Leading Causes of Death at Different Ages*, was the basis for the categories used in this table.

VITAL STATISTICS INFORMATION BOX

DEATHS DUE TO CANCERS (MALIGNANT NEOPLASMS) BY GENDER

BRITISH COLUMBIA, 1999

Cancer Site or Type	ICD9 Codes	Males		Females		Total		Percent
		Deaths	Percent	Deaths	Percent	Deaths	Percent	<65 Years*
Lung cancer	162	1,134	28.0	863	24.5	1,997	26.4	28.1
Intestinal and rectal cancer	152–154	392	9.7	310	8.8	702	9.3	22.4
Female breast cancer	174	–	–	575	16.3	575	7.6	41.9
Lymph system cancer	200–203	262	6.5	214	6.1	476	6.3	23.3
Prostate cancer	185	503	12.4	–	–	503	6.6	6.0
Pancreatic cancer	157	219	5.4	200	5.7	419	5.5	26.0
Leukaemias	204–208	137	3.4	122	3.5	259	3.4	25.9
Stomach cancer	151	127	3.1	90	2.6	217	2.9	24.0
Liver, gallbladder and bile duct cancers	155–156	135	3.3	90	2.6	225	3.0	28.0
Ovarian cancer	183	–	–	199	5.6	199	2.6	29.1
Esophageal cancer	150	142	3.5	50	1.4	192	2.5	28.1
Brain cancer	191	99	2.4	77	2.2	176	2.3	52.3
Kidney cancer	189	120	3.0	68	1.9	188	2.5	25.5
Bladder cancer	188	142	3.5	61	1.7	203	2.7	15.3
Lip, oral cavity and pharynx cancer	140–149	84	2.1	40	1.1	124	1.6	42.7
Uterine cancer	179–182	–	–	116	3.3	116	1.5	36.2
Malignant melanoma of skin	172	66	1.6	29	0.8	95	1.3	50.5
Bone and articular cartilage cancer	170	13	0.3	5	0.1	18	0.2	61.1
Other cancers		468	11.6	418	11.9	886	11.7	24.2
Cancers, all sites/types	**140–208**	**4,043**	**100.0**	**3,527**	**100.0**	**7,570**	**100.0**	**27.1**

Note: The Statistics Canada publication, *Leading Causes of Death at Different Ages*, was the basis for the categories in this table.
*Percent <65 Yrs is the percent of total deaths from this cause where the age at death was less than 65 years old.

VITAL STATISTICS INFORMATION BOX

DEATHS DUE TO CIRCULATORY SYSTEM DISEASES BY GENDER

BRITISH COLUMBIA, 1999

Circulatory System Diseases	ICD9 Codes	Males		Females		Total		Percent
		Deaths	Percent	Deaths	Percent	Deaths	Percent	<65 Years*
Ischaemic heart disease	410–414	2,794	54.2	2,026	42.1	4,820	48.3	11.5
Cerebrovascular diseases	430–438	982	19.0	1,294	26.9	2,276	22.8	8.0
Heart failure	428	310	6.0	417	8.7	727	7.3	2.2
Cardiac dysrhythmias	427	224	4.3	304	6.3	528	5.3	9.8
Aortic aneurysm	441	148	2.9	108	2.2	256	2.6	10.5
Cardiomyopathy	425	164	3.2	82	1.7	246	2.5	20.3
Hypertensive disease	401–405	88	1.7	116	2.4	204	2.0	10.3
Atherosclerosis	440	73	1.4	75	1.6	148	1.5	4.1
Pulmonary heart disease	415–417	46	0.9	54	1.1	100	1.0	25.0
Other circulatory system diseases		328	6.4	342	7.1	670	6.7	14.2
All diseases of the circulatory system	**390–459**	**5,157**	**100.0**	**4,818**	**100.0**	**9,975**	**100.0**	**10.3**

Note: The Statistics Canada publication, *Leading Causes of Death at Different Ages*, was the basis for the categories in this table.
*Percent <65 Yrs is the percent of total deaths from this cause where the age at death was less than 65 years old.

VITAL STATISTICS INFORMATION BOX

LEADING CAUSES OF DEATH BY GENDER
BRITISH COLUMBIA, 1999

Leading Causes of Death	ICD9 Codes	Total Deaths		Males		Females	
		Number	Rank	Number	Rank	Number	Rank
Ischaemic heart disease	410–414	4,820	1	2,794	1	2,026	1
Cerebrovascular diseases	430–438	2,276	2	982	3	1,294	2
Lung cancer	162	1,997	3	1,134	2	863	3
Pneumonia and influenza	480–487	1454	4	719	4	735	4
Chronic airways obstruction	496	1026	5	585	5	441	6
Heart failure	428	727	6	310	10	417	7
Intestinal and rectal cancer	152–154	702	7	392	7	310	9
Senile and presenile dementia	290, 298.9	622	8	215	16	407	8
Diabetes mellitus	250	601	9	317	9	284	11
Female breast cancer	174	575	10	–	–	575	5
Cardiac dysrhythmias	427	528	11	224	14	304	10
Prostate cancer	185	503	12	503	6	–	–
Lymph system cancer	200–203	476	13	262	11	214	12
Suicide	E950–E959	421	14	337	8	84	27
Pancreatic cancer	157	419	15	219	15	200	13
Accidental falls	E833–E835,E880–E888	367	16	194	17	173	16
Motor vehicle accidents	E810–E825,E929.0	356	17	247	12	109	22
Accidental poisoning	E850–E869	298	18	227	13	71	35
Nephritis, nephrotic syndrome and nephrosis	580–589	297	19	158	20	139	17
Alzheimer's diseases	331.0	272	20	92	31	180	15
Bronchitis, emphysema and asthma	490–493	261	21	128	26	133	18
Leukaemias	204–208	259	22	137	24	122	19
Aortic aneurysm	441	256	23*	148	21	108	23
Chronic liver disease and cirrhosis	571	256	23*	171	18	85	26
Cardiomyopathy	425	246	25	164	19	82	28
Liver, gallbladder and bile duct cancers	155–156	225	26	135	25	90	24*
Stomach cancer	151	217	27	127	27	90	24*
Hypertensive disease	401–405	204	28	88	32*	116	20*
Bladder cancer	188	203	29	142	22*	61	37
Ovarian cancer	183	199	30	–	–	199	14
Esophageal cancer	150	192	31	142	22*	50	39
Kidney cancer	189	188	32	120	28	68	36
Parkinson's disease	332	176	33*	96	30	80	29
Brain cancer	191	176	33*	99	29	77	30*
Septicaemia	038	155	35	78	35	77	30*
Atherosclerosis	440	148	36	73	37	75	34
Gastrointestinal haemorrhage	578	133	37	56	39	77	30*
Lip, oral cavity and pharynx cancer	140–149	124	38	84	34	40	42
Noninfective enteritis and colitis	555–558	123	39	46	40*	77	30*
Uterine cancer (all parts)	179–182	116	40	–	–	116	20*
Pulmonary heart disease	415–417	100	41*	46	40*	54	38
AIDS / HIV infections	042–044	100	41*	88	32*	12	52
Alcoholic psychoses, alcohol dependence syndrome and nondependent abuse of alcohol	291,303,305.0	98	43	77	36	21	48
Malignant melanoma of skin	172	95	44	66	38	29	45
Urinary tract infection, not otherwise specified	599.0	77	45	28	46*	49	40
Peptic ulcers	531–534	75	46	36	43	39	43
Fluid, electrolyte and acid-base balance	276	62	47*	20	50	42	41
Anterior horn cell disease	335	62	47*	35	44	27	46
Anaemias	280–285	53	49	27	48	26	47
Accidental drowning and watercraft accidents	E830,E832,E910	48	50	37	42	11	53*

Note: * Indicates that two causes of death share the same rank.
The Statistics Canada publication, *Leading Causes of Death at Different Ages*, was the basis for the categories used in this table.

VITAL STATISTICS INFORMATION BOX

DEATHS DUE TO CANCERS (MALIGNANT NEOPLASMS) BY GENDER

BRITISH COLUMBIA, 1999

Cancer Site or Type	ICD9 Codes	Males		Females		Total		Percent
		Deaths	Percent	Deaths	Percent	Deaths	Percent	<65 Years*
Lung cancer	162	1,134	28.0	863	24.5	1,997	26.4	28.1
Intestinal and rectal cancer	152–154	392	9.7	310	8.8	702	9.3	22.4
Female breast cancer	174	–	–	575	16.3	575	7.6	41.9
Lymph system cancer	200–203	262	6.5	214	6.1	476	6.3	23.3
Prostate cancer	185	503	12.4	–	–	503	6.6	6.0
Pancreatic cancer	157	219	5.4	200	5.7	419	5.5	26.0
Leukaemias	204–208	137	3.4	122	3.5	259	3.4	25.9
Stomach cancer	151	127	3.1	90	2.6	217	2.9	24.0
Liver, gallbladder and bile duct cancers	155–156	135	3.3	90	2.6	225	3.0	28.0
Ovarian cancer	183	–	–	199	5.6	199	2.6	29.1
Esophageal cancer	150	142	3.5	50	1.4	192	2.5	28.1
Brain cancer	191	99	2.4	77	2.2	176	2.3	52.3
Kidney cancer	189	120	3.0	68	1.9	188	2.5	25.5
Bladder cancer	188	142	3.5	61	1.7	203	2.7	15.3
Lip, oral cavity and pharynx cancer	140–149	84	2.1	40	1.1	124	1.6	42.7
Uterine cancer	179–182	–	–	116	3.3	116	1.5	36.2
Malignant melanoma of skin	172	66	1.6	29	0.8	95	1.3	50.5
Bone and articular cartilage cancer	170	13	0.3	5	0.1	18	0.2	61.1
Other cancers		468	11.6	418	11.9	886	11.7	24.2
Cancers, all sites/types	**140–208**	**4,043**	**100.0**	**3,527**	**100.0**	**7,570**	**100.0**	**27.1**

Note: The Statistics Canada publication, *Leading Causes of Death at Different Ages*, was the basis for the categories in this table.
*Percent <65 Yrs is the percent of total deaths from this cause where the age at death was less than 65 years old.

VITAL STATISTICS INFORMATION BOX

DEATHS DUE TO CIRCULATORY SYSTEM DISEASES BY GENDER

BRITISH COLUMBIA, 1999

Circulatory System Diseases	ICD9 Codes	Males		Females		Total		Percent
		Deaths	Percent	Deaths	Percent	Deaths	Percent	<65 Years*
Ischaemic heart disease	410–414	2,794	54.2	2,026	42.1	4,820	48.3	11.5
Cerebrovascular diseases	430–438	982	19.0	1,294	26.9	2,276	22.8	8.0
Heart failure	428	310	6.0	417	8.7	727	7.3	2.2
Cardiac dysrhythmias	427	224	4.3	304	6.3	528	5.3	9.8
Aortic aneurysm	441	148	2.9	108	2.2	256	2.6	10.5
Cardiomyopathy	425	164	3.2	82	1.7	246	2.5	20.3
Hypertensive disease	401–405	88	1.7	116	2.4	204	2.0	10.3
Atherosclerosis	440	73	1.4	75	1.6	148	1.5	4.1
Pulmonary heart disease	415–417	46	0.9	54	1.1	100	1.0	25.0
Other circulatory system diseases		328	6.4	342	7.1	670	6.7	14.2
All diseases of the circulatory system	**390–459**	**5,157**	**100.0**	**4,818**	**100.0**	**9,975**	**100.0**	**10.3**

Note: The Statistics Canada publication, *Leading Causes of Death at Different Ages*, was the basis for the categories in this table.
*Percent <65 Yrs is the percent of total deaths from this cause where the age at death was less than 65 years old.

TABLE 24
INFANT MORTALITY BY AGE OF MOTHER AND BIRTH WEIGHT
BRITISH COLUMBIA, 1999

Age of Mother	Birth Weight (in Grams)				Total		
	<1500	1500–2499	2500+	N.S.	Number	Percent	Rate
<20	6	–	6	1	13	8.3	6.48
20–24	13	5	18	–	36	23.1	5.15
25–29	15	1	18	–	34	21.8	2.75
30–34	24	9	14	–	47	30.1	3.64
35–39	14	4	4	–	22	14.1	3.46
40+	3	–	–	–	3	1.9	2.68
N.S.	–	–	–	1	1	0.6	–
TOTAL	**75**	**19**	**60**	**2**	**156**	**100.0**	**3.74**
Percent	**48.1**	**12.2**	**38.5**	**1.3**	**100.0**		
Rate	**230.77**	**11.47**	**1.51**	–	**3.74**		

Note: Infant Mortality – Age at death less than one year.
Rate per 1,000 live births in the specified age or birth weight group.
++ Denotes the number of cases is 5 or less.
Total percentage may not add up to 100 due to rounding.
Non-residents and gender unknown are excluded.
N.S. – Not Stated.

HIGHLIGHTS TO TABLE 24

- There were 156 infant deaths (under one year of age) in 1999, for an infant mortality rate of 3.74 infant deaths per 1,000 live births. This represents a decrease from 1998, when there were 174 infant deaths and the infant mortality rate was 4.1. For time series data, please refer to Table 4 and Figure 6.
- In 1999, almost one third (31.4%) of infant deaths were to mothers under 25 years of age. There were 6.48 infant deaths per 1,000 live births for teenage mothers (under 20 years of age) and 5.15 infant deaths per 1,000 live births for mothers 20–24 years of age. For all remaining maternal age groups (25 to 40+ years of age), the infant mortality rate ranged from 2.68 to 3.64.
- Low birth weight (less than 2,500 grams) and very low birth weight (less than 1,500 grams) are risk factors for infant mortality. Approximately three fifths (60.3%) of the infants who died in 1999 had low birth weight (94 infant deaths), and 48.1% of the infants who died had very low birth weight (75).
- For births with very low birth weight (less than 1,500 grams), the infant mortality rate was 230.77 per 1,000 live births. The mortality rate decreased significantly with increased birth weight; there were 11.47 infant deaths per 1,000 live births with birth weight between 1,500 and 2,499 grams, and only 1.51 infant deaths for every 1,000 live births with normal birth weight (2,500 grams or more).

TABLE 25
INFANT MORTALITY BY GESTATIONAL AGE AND BIRTH WEIGHT
BRITISH COLUMBIA, 1999

Gestational Age (In Weeks)	Birth Weight (in Grams)				Total		
	<1500	1500–2499	2500+	N.S.	Number	Percent	Rate
<20	–	–	–	–	–	–	–
20–27	61	–	–	–	61	39.1	401.32
28–36	14	12	4	–	30	19.2	11.90
37–41	–	7	54	–	61	39.1	1.59
42+	–	–	2	–	2	1.3	++
N.S.	–	–	–	2	2	1.3	–
TOTAL	**75**	**19**	**60**	**2**	**156**	**100.0**	**3.74**
Percent	**48.1**	**12.2**	**38.5**	**1.3**	**100.0**		
Rate	**230.77**	**11.47**	**1.51**	**–**	**3.74**		

Note: Infant Mortality – Age at death less than one year.
Rate per 1,000 live births in the specified age or birth weight group.
++ Denotes the number of cases is 5 or less.
Total percentage may not add up to 100 due to rounding.
Non-residents and gender unknown are excluded.
N.S. – Not Stated.

HIGHLIGHTS TO TABLE 25

- Prematurity (less than 37 weeks of gestation) and low birth weight (less than 2,500 grams at birth) are both important risk factors for infant mortality. Approximately six out of every ten infant deaths were premature or had a low birth weight, and most of those had both prematurity and low birth weight.
- In 1999, of the 156 infant deaths in the province, 63 were full term (gestational age 37 weeks or more), 91 infants were premature babies (gestational age less than 37 weeks), and the gestational ages of the remaining two were unknown. Among full term babies, there were 1.59 infant deaths per 1,000 live births with normal gestational age. The infant mortality rate rose dramatically for premature infants; there were 11.90 infant deaths per 1,000 live births with between 28 and 36 weeks of gestation, and 401.32 deaths per 1,000 live births with only 20 to 27 weeks of gestation.
- Of the 91 infant deaths who were premature, 87 were also low birth weight babies, and 61 of these were both extremely premature (gestational age of less than 28 weeks at birth) and extremely low birth weight (less than 1,500 grams). The infant mortality rate for the extremely premature babies (401.32) reflects the low birth weight and fragile health of these babies.

TABLE 24
INFANT MORTALITY BY AGE OF MOTHER AND BIRTH WEIGHT
BRITISH COLUMBIA, 1999

Age of Mother	Birth Weight (in Grams)				Total		
	<1500	1500–2499	2500+	N.S.	Number	Percent	Rate
<20	6	–	6	1	13	8.3	6.48
20–24	13	5	18	–	36	23.1	5.15
25–29	15	1	18	–	34	21.8	2.75
30–34	24	9	14	–	47	30.1	3.64
35–39	14	4	4	–	22	14.1	3.46
40+	3	–	–	–	3	1.9	2.68
N.S.	–	–	–	1	1	0.6	–
TOTAL	**75**	**19**	**60**	**2**	**156**	**100.0**	**3.74**
Percent	**48.1**	**12.2**	**38.5**	**1.3**	**100.0**		
Rate	**230.77**	**11.47**	**1.51**	–	**3.74**		

Note: Infant Mortality – Age at death less than one year.
Rate per 1,000 live births in the specified age or birth weight group.
++ Denotes the number of cases is 5 or less.
Total percentage may not add up to 100 due to rounding.
Non-residents and gender unknown are excluded.
N.S. – Not Stated.

HIGHLIGHTS TO TABLE 24

- There were 156 infant deaths (under one year of age) in 1999, for an infant mortality rate of 3.74 infant deaths per 1,000 live births. This represents a decrease from 1998, when there were 174 infant deaths and the infant mortality rate was 4.1. For time series data, please refer to Table 4 and Figure 6.
- In 1999, almost one third (31.4%) of infant deaths were to mothers under 25 years of age. There were 6.48 infant deaths per 1,000 live births for teenage mothers (under 20 years of age) and 5.15 infant deaths per 1,000 live births for mothers 20–24 years of age. For all remaining maternal age groups (25 to 40+ years of age), the infant mortality rate ranged from 2.68 to 3.64.
- Low birth weight (less than 2,500 grams) and very low birth weight (less than 1,500 grams) are risk factors for infant mortality. Approximately three fifths (60.3%) of the infants who died in 1999 had low birth weight (94 infant deaths), and 48.1% of the infants who died had very low birth weight (75).
- For births with very low birth weight (less than 1,500 grams), the infant mortality rate was 230.77 per 1,000 live births. The mortality rate decreased significantly with increased birth weight; there were 11.47 infant deaths per 1,000 live births with birth weight between 1,500 and 2,499 grams, and only 1.51 infant deaths for every 1,000 live births with normal birth weight (2,500 grams or more).

TABLE 25
INFANT MORTALITY BY GESTATIONAL AGE AND BIRTH WEIGHT
BRITISH COLUMBIA, 1999

Gestational Age (In Weeks)	Birth Weight (in Grams)				Total		
	<1500	1500–2499	2500+	N.S.	Number	Percent	Rate
<20	–	–	–	–	–	–	–
20–27	61	–	–	–	61	39.1	401.32
28–36	14	12	4	–	30	19.2	11.90
37–41	–	7	54	–	61	39.1	1.59
42+	–	–	2	–	2	1.3	++
N.S.	–	–	–	2	2	1.3	–
TOTAL	**75**	**19**	**60**	**2**	**156**	**100.0**	**3.74**
Percent	**48.1**	**12.2**	**38.5**	**1.3**	**100.0**		
Rate	**230.77**	**11.47**	**1.51**	**–**	**3.74**		

Note: Infant Mortality – Age at death less than one year.
Rate per 1,000 live births in the specified age or birth weight group.
++ Denotes the number of cases is 5 or less.
Total percentage may not add up to 100 due to rounding.
Non-residents and gender unknown are excluded.
N.S. – Not Stated.

HIGHLIGHTS TO TABLE 25

- Prematurity (less than 37 weeks of gestation) and low birth weight (less than 2,500 grams at birth) are both important risk factors for infant mortality. Approximately six out of every ten infant deaths were premature or had a low birth weight, and most of those had both prematurity and low birth weight.
- In 1999, of the 156 infant deaths in the province, 63 were full term (gestational age 37 weeks or more), 91 infants were premature babies (gestational age less than 37 weeks), and the gestational ages of the remaining two were unknown. Among full term babies, there were 1.59 infant deaths per 1,000 live births with normal gestational age. The infant mortality rate rose dramatically for premature infants; there were 11.90 infant deaths per 1,000 live births with between 28 and 36 weeks of gestation, and 401.32 deaths per 1,000 live births with only 20 to 27 weeks of gestation.
- Of the 91 infant deaths who were premature, 87 were also low birth weight babies, and 61 of these were both extremely premature (gestational age of less than 28 weeks at birth) and extremely low birth weight (less than 1,500 grams). The infant mortality rate for the extremely premature babies (401.32) reflects the low birth weight and fragile health of these babies.

INFANT MORTALITY BY LOCAL HEALTH AREA

Local Health Area		1994–1998 Observed Deaths	Ratio (p)	Rate	1999 Age at Death (in Days) 0–6	0–27	28–364	Total Number	Rate
001	Fernie	5	1.30	6.71	1	1	–	1	7.69
002	Cranbrook	9	1.28	6.61	–	–	–	–	–
003	Kimberley	1	0.55	2.85	–	–	–	–	–
004	Windermere	5	2.15	11.09	–	–	–	–	–
005	Creston	5	1.55	7.99	–	1	–	1	6.85
006/007	Kootenay Lake/Nelson	11	1.56	8.01	–	–	–	–	–
009	Castlegar	8	2.37 *	12.23	–	–	–	–	–
010	Arrow Lakes	1	0.68	3.48	–	–	–	–	–
011	Trail	4	0.84	4.32	–	–	1	1	5.85
012/013	Grand Forks/Kettle Valley	4	1.47	7.59	–	–	–	–	–
014	Southern Okanagan	5	1.22	6.30	2	2	–	2	14.29
015	Penticton	8	0.82	4.24	1	1	–	1	2.95
016	Keremeos	–	–	–	–	–	–	–	–
017	Princeton	3	2.75	14.15	2	2	–	2	55.56
018	Golden	1	0.45	2.34	–	–	–	–	–
019	Revelstoke	4	1.52	7.81	–	–	–	–	–
020	Salmon Arm	7	1.01	5.22	–	–	–	–	–
021	Armstrong–Spallumcheen	2	0.85	4.38	–	–	–	–	–
022	Vernon	11	0.73	3.75	–	1	–	1	1.86
023	Central Okanagan	33	0.87	4.50	4	4	2	6	4.27
024	Kamloops	25	0.89	4.60	1	1	1	2	2.13
025	100 Mile House	3	0.75	3.88	–	–	–	–	–
026	North Thompson	1	0.67	3.46	–	–	1	1	19.61
027	Cariboo–Chilcotin	11	1.10	5.67	1	1	–	1	2.81
028	Quesnel	8	0.91	4.70	1	1	2	3	9.58
029	Lillooet	1	0.58	3.00	–	–	–	–	–
030	South Cariboo	4	1.77	9.13	–	–	–	–	–
031	Merritt	3	0.76	3.92	1	1	–	1	9.90
032	Hope	5	2.13	10.96	–	–	–	–	–
033	Chilliwack	24	1.04	5.38	2	4	2	6	7.02
034	Abbotsford	31	0.73	3.74	2	2	5	7	4.50
035	Langley	24	0.72	3.71	3	3	2	5	3.89
036	Surrey	134	1.03	5.28	10	12	7	19	3.96
037	Delta	35	1.18	6.10	–	–	1	1	0.94
038	Richmond	40	0.92	4.76	4	4	–	4	2.63
040	New Westminster	22	1.27	6.53	–	–	–	–	–
041	Burnaby	56	1.06	5.48	7	8	3	11	5.49
042	Maple Ridge	27	1.09	5.61	–	1	–	1	1.15
043	Coquitlam	51	0.86	4.45	1	5	–	5	2.30
044	North Vancouver	24	0.65 *	3.34	1	2	1	3	2.21
045	West Vancouver–Bowen Is.	6	0.72	3.73	–	–	–	–	–
046	Sunshine Coast	5	0.76	3.90	–	–	1	1	4.72
047	Powell River	8	1.49	7.69	–	–	–	–	–
048	Howe Sound	6	0.60	3.10	–	–	–	–	–
049	Bella Coola Valley	4	3.08	15.87	–	–	–	–	–
050	Queen Charlotte	3	1.35	6.98	–	–	–	–	–
051	Snow Country	1	2.46	12.66	–	–	–	–	–
052	Prince Rupert	7	0.89	4.58	1	1	–	1	4.59
053	Upper Skeena	3	1.34	6.88	1	1	–	1	13.70
054	Smithers	12	1.65	8.49	1	1	–	1	3.56
055/093	Burns Lake/Eutsuk	8	2.71 *	13.96	–	–	–	–	–
056	Nechako	7	0.94	4.83	–	–	1	1	4.27
057	Prince George	41	1.17	6.04	4	4	3	7	5.95
059	Peace River South	5	0.50	2.55	1	1	1	2	6.29
060	Peace River North	6	0.48	2.50	–	–	1	1	2.27
061	Greater Victoria	48	0.95	4.89	2	3	3	6	3.40
062	Sooke	12	0.73	3.77	3	3	–	3	5.37
063	Saanich	10	0.85	4.40	–	–	–	–	–
064	Gulf Islands	–	–	–	–	–	–	–	–
065	Cowichan	20	1.41	7.28	1	1	1	2	3.94
066	Lake Cowichan	1	0.59	3.04	–	–	1	1	16.13
067	Ladysmith	5	1.06	5.48	–	–	–	–	–
068	Nanaimo	27	1.12	5.75	1	1	1	2	2.36
069	Qualicum	7	0.94	4.85	–	–	–	–	–
070	Alberni	11	1.10	5.67	–	1	–	1	3.07
071	Courtenay	13	0.86	4.42	4	5	2	7	13.08
072/084	Campbell River/V.I. West	13	1.01	5.18	1	1	–	1	2.30
075	Mission	12	1.00	5.15	–	–	–	–	–
076	Agassiz–Harrison	4	1.89	9.73	–	–	–	–	–
077	Summerland	2	0.87	4.47	–	–	–	–	–
078	Enderby	2	0.92	4.73	–	–	2	2	31.25
080	Kitimat	4	1.01	5.21	–	–	–	–	–
081	Fort Nelson	8	2.62 *	13.51	–	–	–	–	–
083	Central Coast	2	2.68	13.79	–	–	–	–	–
085	Vancouver Island North	12	2.12 *	10.90	2	2	1	3	16.57
087/094	Stikine/Telegraph Creek	–	–	–	–	–	–	–	–
088	Terrace	10	1.14	5.87	–	–	–	–	–
092	Nishga	1	1.08	5.59	–	–	–	–	–
161	Vancouver City Centre	8	0.54	2.77	–	–	1	1	1.52
162	Vancouver Downtown E. Side	15	1.04	5.36	1	3	–	3	6.51
163	Vancouver North East	41	1.27	6.56	6	7	1	8	6.84
164	Vancouver West Side	18	0.71	3.64	–	1	1	2	1.91
165	Vancouver Midtown	53	1.72 *	8.86	4	6	–	6	5.54
166	Vancouver South	30	0.81	4.16	6	6	2	8	6.09
039	**VANCOUVER TOTAL**	**165**	**1.06**	**5.44**	**17**	**23**	**5**	**28**	**4.88**
	N.S.	1	–	–	–	–	–	–	–
	PROVINCIAL TOTAL	**1,168**	**1.00**	**5.15**	**83**	**105**	**51**	**156**	**3.74**

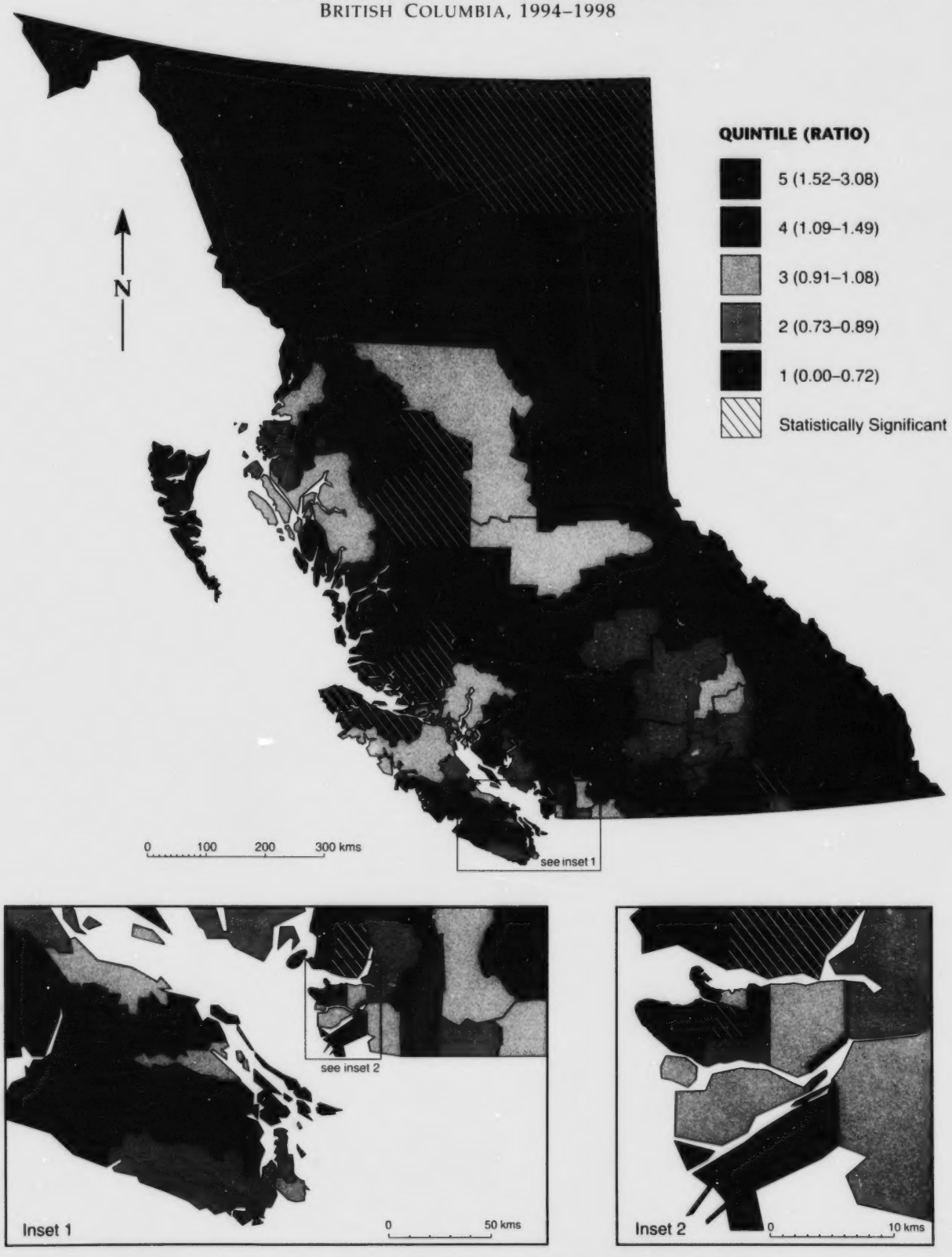
Note: * Statistical testing indicates that observed deaths are signficantly different from the expected deaths ($p<0.05$, two tailed). Rate per 1,000 live births in the specified Local Health Area. Ratio – observed over the expected deaths. LHA 039 Vancouver Total may include unspecified Vancouver addresses. Infant deaths with gender unknown are included. N.S. – Not Stated. Non-residents are excluded.

INFANT MORTALITY BY LOCAL HEALTH AREA

Local Health Area		1994–1998 Observed Deaths	Ratio	(p)	Rate	1999 Age at Death (in Days) 0–6	0–27	28–364	Total Number	Total Rate
001	Fernie	5	1.30		6.71	1	1	–	1	7.69
002	Cranbrook	9	1.28		6.61	–	–	–	–	–
003	Kimberley	1	0.55		2.85	–	–	–	–	–
004	Windermere	5	2.15		11.09	–	–	–	–	–
005	Creston	5	1.55		7.99	–	1	–	1	6.85
006/007	Kootenay Lake/Nelson	11	1.56		8.01	–	–	–	–	–
009	Castlegar	8	2.37	*	12.23	–	–	–	–	–
010	Arrow Lakes	1	0.68		3.48	–	–	–	–	–
011	Trail	4	0.84		4.32	–	–	1	1	5.85
012/013	Grand Forks/Kettle Valley	4	1.47		7.59	–	–	–	–	–
014	Southern Okanagan	5	1.22		6.30	2	2	–	2	14.29
015	Penticton	8	0.82		4.24	1	1	–	1	2.95
016	Keremeos	–	–		–	–	–	–	–	–
017	Princeton	3	2.75		14.15	2	2	–	2	55.56
018	Golden	1	0.45		2.34	–	–	–	–	–
019	Revelstoke	4	1.52		7.81	–	–	–	–	–
020	Salmon Arm	7	1.01		5.22	–	–	–	–	–
021	Armstrong–Spallumcheen	2	0.85		4.38	–	–	–	–	–
022	Vernon	11	0.73		3.75	–	1	–	1	1.86
023	Central Okanagan	33	0.87		4.50	4	4	2	6	4.27
024	Kamloops	25	0.89		4.60	1	1	1	2	2.13
025	100 Mile House	3	0.75		3.88	–	–	–	–	–
026	North Thompson	1	0.67		3.46	–	–	1	1	19.61
027	Cariboo–Chilcotin	11	1.10		5.67	1	1	–	1	2.81
028	Quesnel	8	0.91		4.70	1	1	2	3	9.58
029	Lillooet	1	0.58		3.00	–	–	–	–	–
030	South Cariboo	4	1.77		9.13	–	–	–	–	–
031	Merritt	3	0.76		3.92	1	1	–	1	9.90
032	Hope	5	2.13		10.96	–	–	–	–	–
033	Chilliwack	24	1.04		5.38	2	4	2	6	7.02
034	Abbotsford	31	0.73		3.74	2	2	5	7	4.50
035	Langley	24	0.72		3.71	3	3	2	5	3.89
036	Surrey	134	1.03		5.28	10	12	7	19	3.96
037	Delta	35	1.18		6.10	–	–	1	1	0.94
038	Richmond	40	0.92		4.76	4	4	–	4	2.63
040	New Westminster	22	1.27		6.53	–	–	–	–	–
041	Burnaby	56	1.06		5.48	7	8	3	11	5.49
042	Maple Ridge	27	1.09		5.61	–	1	–	1	1.15
043	Coquitlam	51	0.86		4.45	1	5	–	5	2.30
044	North Vancouver	24	0.65	*	3.34	1	2	1	3	2.21
045	West Vancouver–Bowen Is.	6	0.72		3.73	–	–	–	–	–
046	Sunshine Coast	5	0.76		3.90	–	–	1	1	4.72
047	Powell River	8	1.49		7.69	–	–	–	–	–
048	Howe Sound	6	0.60		3.10	–	–	–	–	–
049	Bella Coola Valley	4	3.08		15.87	–	–	–	–	–
050	Queen Charlotte	3	1.35		6.98	–	–	–	–	–
051	Snow Country	1	2.46		12.66	–	–	–	–	–
052	Prince Rupert	7	0.89		4.58	1	1	–	1	4.59
053	Upper Skeena	3	1.34		6.88	1	1	–	1	13.70
054	Smithers	12	1.65		8.49	1	1	–	1	3.56
055/093	Burns Lake/Eutsuk	8	2.71	*	13.96	–	–	–	–	–
056	Nechako	7	0.94		4.83	–	–	1	1	4.27
057	Prince George	41	1.17		6.04	4	4	3	7	5.95
059	Peace River South	5	0.50		2.55	1	1	1	2	6.29
060	Peace River North	6	0.48		2.50	–	–	1	1	2.27
061	Greater Victoria	48	0.95		4.89	2	3	3	6	3.40
062	Sooke	12	0.73		3.77	3	3	–	3	5.37
063	Saanich	10	0.85		4.40	–	–	–	–	–
064	Gulf Islands	–	–		–	–	–	–	–	–
065	Cowichan	20	1.41		7.28	1	1	1	2	3.94
066	Lake Cowichan	1	0.59		3.04	–	–	1	1	16.13
067	Ladysmith	5	1.06		5.48	–	–	–	–	–
068	Nanaimo	27	1.12		5.75	1	1	1	2	2.36
069	Qualicum	7	0.94		4.85	–	–	–	–	–
070	Alberni	11	1.10		5.67	–	1	–	1	3.07
071	Courtenay	13	0.86		4.42	4	5	2	7	13.08
072/084	Campbell River/V.I. West	13	1.01		5.18	1	1	–	1	2.30
075	Mission	12	1.00		5.15	–	–	–	–	–
076	Agassiz–Harrison	4	1.89		9.73	–	–	–	–	–
077	Summerland	2	0.87		4.47	–	–	–	–	–
078	Enderby	2	0.92		4.73	–	–	2	2	31.25
080	Kitimat	4	1.01		5.21	–	–	–	–	–
081	Fort Nelson	8	2.62	*	13.51	–	–	–	–	–
083	Central Coast	2	2.68		13.79	–	–	–	–	–
085	Vancouver Island North	12	2.12	*	10.90	2	2	1	3	16.57
087/094	Stikine/Telegraph Creek	–	–		–	–	–	–	–	–
088	Terrace	10	1.14		5.87	–	–	–	–	–
092	Nishga	1	1.08		5.59	–	–	–	–	–
161	Vancouver City Centre	8	0.54		2.77	–	–	1	1	1.52
162	Vancouver Downtown E. Side	15	1.04		5.36	1	3	–	3	6.51
163	Vancouver North East	41	1.27		6.56	6	7	1	8	6.84
164	Vancouver West Side	18	0.71		3.64	–	1	1	2	1.91
165	Vancouver Midtown	53	1.72	*	8.86	4	6	–	6	5.54
166	Vancouver South	30	0.81		4.16	6	6	2	8	6.09
039	**VANCOUVER TOTAL**	**165**	**1.06**		**5.44**	**17**	**23**	**5**	**28**	**4.88**
	N.S.	1	–		–	–	–	–	–	–
	PROVINCIAL TOTAL	**1,168**	**1.00**		**5.15**	**83**	**105**	**51**	**156**	**3.74**

Note: * Statistical testing indicates that observed deaths are signficantly different from the expected deaths ($p<0.05$, two tailed). Rate per 1,000 live births in the specified Local Health Area. Ratio – observed over the expected deaths. LHA 039 Vancouver Total may include unspecified Vancouver addresses. Infant deaths with gender unknown are included. N.S. – Not Stated. Non-residents are excluded.

FIGURE 16
INFANT MORTALITY BY LOCAL HEALTH AREA
BRITISH COLUMBIA, 1994–1998



Note: Ratio – Observed over the expected. Refer to Figure 1 to clarify geographical location of Local Health Areas.

HIGHLIGHTS TO TABLE 26/FIGURE 16

- There were 3.74 infant deaths per 1,000 live births in 1999. This infant mortality rate was well below the rate for the 1994–1998 period (5.15).
- Only 13 Local Health Areas (LHAs) had 5 or more infant deaths in 1999, and 37 LHAs had no infant deaths in 1999. The highest infant mortality rate in 1999 (based on five or more infant deaths) was 13.08 in Courtenay LHA (7 infant deaths), and the lowest was 2.30 in Coquitlam LHA (5 infant deaths).
- The five LHAs with infant mortality ratios that were statistically significant and high in 1994–1998 (with number of deaths in parentheses, and rates) were:

055/093	Burns Lake/Eutsuk	2.71	(8)	13.96
081	Fort Nelson	2.62	(8)	13.51
009	Castlegar	2.37	(8)	12.23
085	Vancouver Island North	2.12	(12)	10.90
165	Vancouver Midtown	1.72	(53)	8.86

- The only LHA with infant mortality ratio that was statistically significant and low in 1994–1998 (with number of deaths in parentheses, and rates) was:

044	North Vancouver	0.65	(24)	3.34

VITAL STATISTICS INFORMATION BOX

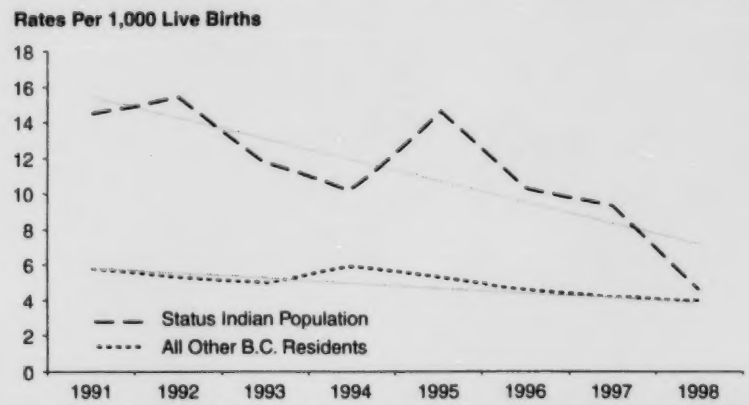
TRENDS OF INFANT MORTALITY IN THE STATUS INDIAN POPULATION, 1991–1998

Between 1991 and 1998, one out of every seven infant deaths in the province was a Status Indian child. In total, there were 274 Status Indian infant deaths in this eight-year period, for an infant mortality rate of 11.3 infant deaths for every 1,000 live births in this population. This was more than twice the infant mortality rate for other British Columbians, 5.0 deaths per 1,000 live births. While both populations experienced similar mortality patterns for newborns in the neonatal period (up to 27 days after birth), the Status Indian population had a higher mortality rate in the post-neonatal period, 28 to 364 days after birth. Sudden Infant Death Syndrome (SIDS) was the cause of death for 104 of the 178 Status Indian infants who died in the post-neonatal period.

Infant mortality has improved in the province in last eight years, particularly in the Status Indian population. The annual number of Status Indian infant deaths decreased from 44 deaths in 1991 to 14 in 1998, resulting in a dramatic decline in the infant mortality rate from 14.5 to 4.6 per 1,000 live births over the same period. In comparison, the infant mortality rate among all other B.C. residents declined from 5.8 to 4.0 over the eight-year period.

Source: *Analysis of Status Indians in British Columbia, 1991–1998*; available on the Agency website (http://www.hlth.gov.bc.ca/vs/stats).

INFANT MORTALITY RATES – STATUS INDIAN AND ALL OTHER B.C. RESIDENTS, 1991–1998



VITAL STATISTICS INFORMATION BOX

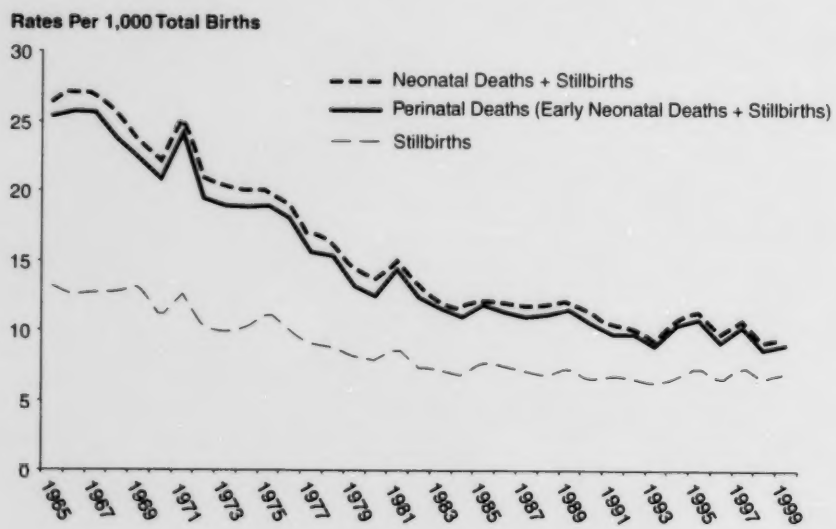
PERINATAL MORTALITY

Perinatal mortality refers to fetal deaths (stillbirths) plus infant deaths which occur shortly after birth. Perinatal mortality, calculated by combining stillbirths and early neonatal deaths (age at death less than 7 days), is a useful population health status measure since the causes of stillbirths and early neonatal deaths are frequently so similar. Provincial perinatal deaths ranged between 800 and 850 deaths in the late 1960s (combined data from Tables 1 and 4). These numbers had dropped to roughly 500 or fewer by the 1990s, and to less than 400 perinatal deaths in both 1998 and 1999. Perinatal mortality rates, which were slightly more than 25 per 1,000 total births in 1965, decreased to roughly 10 per 1,000 total births by 1996. The graph of perinatal morality rates between 1965 and 1999 shows a dramatic downward trend even though the rates did not always decline from year to year.

A broader measure of perinatal mortality, stillbirths plus neonatal deaths (age at death less than 28 days), can also be used as a health status measure. The number of neonatal deaths plus stillbirths declined from 900 in 1965 to less than 400 in 1999. A graph of the rates of neonatal deaths plus stillbirths per 1,000 total births shows a similar pattern to the graph of perinatal mortality rates for the same period. The similar trends in these two health status measures reflects the large proportion of infant deaths that occur in the first week of life.

PERINATAL MORTALITY

BRITISH COLUMBIA, 1965–1999



M121

IMPORTANT NOTE CONCERNING THE FOLLOWING PAGES

THE PAGES WHICH FOLLOW HAVE BEEN FILMED TWICE IN ORDER TO OBTAIN THE BEST REPRODUCTIVE QUALITY

USERS SHOULD CONSULT ALL THE PAGES REPRODUCED ON THE FICHE IN ORDER TO OBTAIN A COMPLETE READING OF THE TEXT.

REMARQUE IMPORTANTE CONCERNANT LES PAGES QUI SUIVENT

LES PAGES SUIVANTES ONT ÉTÉ REPRODUITES EN DOUBLE AFIN D'AMÉLIORER LA QUALITÉ DE REPRODUCTION

LES UTILISATEURS DOIVENT CONSULTER TOUTES LES PAGES REPRODUITES SUR LA FICHE AFIN D'OBTENIR LA LECTURE DU TEXTE INTÉGRAL

micromedia
a division of IHS Canada

20 Victoria Street
Toronto, Ontario M5C 2N8
Tel.: (416) 362-5211
Toll Free: 1-800-387-2689
Fax: (416) 362-6161
Email: info@micromedia.on.ca

TABLE 27
SELECTED CAUSES OF INFANT DEATHS AND STILLBIRTHS
BRITISH COLUMBIA, 1999

Cause of Death	ICD9 Code(s)	Infant Deaths – Age Group (in Days)					Stillbirths	
		<7	7–27	28–364	Total	Rate [1]	Number	Rate [2]
Congenital anomalies								
– of the nervous system	740–742	4	–	2	6	1.44	7	1.67
– of the heart and circulatory system	745–747	3	2	5	10	2.40	3	0.71
– of the respiratory system	748	2	3	2	7	1.68	1	0.24
– of the digestive system	749–751	–	1	1	2	0.48	1	0.24
– of the renal system	753	–	–	–	–	–	2	0.48
Musculoskeletal/other congenital anomalies	743–744, 752, 754–757	–	1	–	1	0.24	6	1.43
Chromosomal anomalies	758	3	1	–	4	0.96	19	4.52
Multiple congenital anomalies	759	2	–	–	2	0.48	14	3.33
Total deaths due to congenital anomalies	**740–759**	**14**	**8**	**10**	**32**	**7.67**	**53**	**12.61**
Perinatal complications								
Maternal conditions not related to pregnancy	760	–	–	–	–	–	8	1.90
Complications of pregnancy, labour and delivery	761, 763	9	–	–	9	2.16	25	5.95
Complications of placenta, cord and membranes	762	15	–	–	15	3.59	86	20.46
Slow fetal growth and fetal malnutrition	764	1	–	–	1	0.24	4	0.95
Short gestation and unspecified low birth weight	765	6	–	–	6	1.44	11	2.62
Long gestation and high birth weight	766	–	–	–	–	–	–	–
Birth trauma	767	3	–	–	3	0.72	–	–
Intrauterine hypoxia and birth asphyxia	768	3	–	–	3	0.72	9	2.14
Respiratory conditions of fetus and newborn	769–770	19	3	3	25	5.99	–	–
Infections specific to the perinatal period	771	1	2	2	5	1.20	2	0.48
Fetal and neonatal hemorrhage	772	3	–	–	3	0.72	4	0.95
Perinatal jaundice/other hematological disorders	773–774, 776	–	–	–	–	–	1	0.24
Perinatal digestive system disorders	777	–	–	–	–	–	–	–
Integument and temperature regulation disorders	778	2	–	–	2	0.48	3	0.71
Other perinatal conditions[3]	775, 779	3	2	–	5	1.20	85	20.22
Total deaths due to perinatal complications	**760–779**	**65**	**7**	**5**	**77**	**18.45**	**238**	**56.62**
Pneumonia/influenza	480–487	–	–	2	2	0.48	–	–
Sudden infant death syndrome (SIDS)[4]	798.0	–	–	10	10	2.40	–	–
Other causes		4	7	24	35	8.39	3	0.71
TOTAL		**83**	**22**	**51**	**156**	**37.37**	**294**	**69.94**

Note: [1] Rate per 10,000 live births.
[2] Rate per 10,000 total births (live births plus stillbirths).
[3] Stillbirths with undetermined cause of death were coded ICD9–779.
[4] Some of the infant deaths, which were still under investigation, may later be identified as SIDS.
Non-residents are excluded.

TABLE 27
SELECTED CAUSES OF INFANT DEATHS AND STILLBIRTHS
BRITISH COLUMBIA, 1999

Cause of Death	ICD9 Code(s)	Infant Deaths – Age Group (in Days)					Stillbirths	
		<7	7–27	28–364	Total	Rate [1]	Number	Rate [2]
Congenital anomalies								
– of the nervous system	740–742	4	–	2	6	1.44	7	1.67
– of the heart and circulatory system	745–747	3	2	5	10	2.40	3	0.71
– of the respiratory system	748	2	3	2	7	1.68	1	0.24
– of the digestive system	749–751	–	1	1	2	0.48	1	0.24
– of the renal system	753	–	–	–	–	–	2	0.48
Musculoskeletal/other congenital anomalies	743–744, 752, 754–757	–	1	–	1	0.24	6	1.43
Chromosomal anomalies	758	3	1	–	4	0.96	19	4.52
Multiple congenital anomalies	759	2	–	–	2	0.48	14	3.33
Total deaths due to congenital anomalies	**740–759**	**14**	**8**	**10**	**32**	**7.67**	**53**	**12.61**
Perinatal complications								
Maternal conditions not related to pregnancy	760	–	–	–	–	–	8	1.90
Complications of pregnancy, labour and delivery	761, 763	9	–	–	9	2.16	25	5.95
Complications of placenta, cord and membranes	762	15	–	–	15	3.59	86	20.46
Slow fetal growth and fetal malnutrition	764	1	–	–	1	0.24	4	0.95
Short gestation and unspecified low birth weight	765	6	–	–	6	1.44	11	2.62
Long gestation and high birth weight	766	–	–	–	–	–	–	–
Birth trauma	767	3	–	–	3	0.72	–	–
Intrauterine hypoxia and birth asphyxia	768	3	–	–	3	0.72	9	2.14
Respiratory conditions of fetus and newborn	769–770	19	3	3	25	5.99	–	–
Infections specific to the perinatal period	771	1	2	2	5	1.20	2	0.48
Fetal and neonatal hemorrhage	772	3	–	–	3	0.72	4	0.95
Perinatal jaundice/other hematological disorders	773–774, 776	–	–	–	–	–	1	0.24
Perinatal digestive system disorders	777	–	–	–	–	–	–	–
Integument and temperature regulation disorders	778	2	–	–	2	0.48	3	0.71
Other perinatal conditions[3]	775, 779	3	2	–	5	1.20	85	20.22
Total deaths due to perinatal complications	**760–779**	**65**	**7**	**5**	**77**	**18.45**	**238**	**56.62**
Pneumonia/influenza	480–487	–	–	2	2	0.48	–	–
Sudden infant death syndrome (SIDS)[4]	798.0	–	–	10	10	2.40	–	–
Other causes		4	7	24	35	8.39	3	0.71
TOTAL		**83**	**22**	**51**	**156**	**37.37**	**294**	**69.94**

Note: [1]Rate per 10,000 live births.
[2]Rate per 10,000 total births (live births plus stillbirths).
[3] Stillbirths with undetermined cause of death were coded ICD9–779.
[4] Some of the infant deaths, which were still under investigation, may later be identified as SIDS.
Non-residents are excluded.

HIGHLIGHTS TO TABLE 27

- In 1999, there were 156 infant deaths and 294 stillbirths. This was a decrease (10.3%) in the number of infant deaths and an increase (5.8%) of stillbirths compared to 1998 (174 infant deaths and 278 stillbirths). The number of stillbirths has exceeded the number of infant deaths each year since 1991 (see Table 1 and Table 4 for details).
- Infant deaths due to unknown causes and those under investigation are coded to 799.9 and are shown under *Other causes*, while undetermined causes of death for stillbirths are coded to 779.9 and are included under *Other perinatal conditions*.
- Perinatal complications were the cause of death for almost half (49.4%) of the infant deaths (77) and 81.0% of all stillbirths (238) in 1999. The infant mortality rate for 1999 due to perinatal complications was 18.45 deaths per 10,000 live births, and the stillbirth rate for this cause was 56.62 per 10,000 total births.
- Congenital anomalies were responsible for one fifth (20.5%) of infant deaths (32) and one out of every seven (18.0%) stillbirths (53) in 1999. The infant mortality rate for 1999 due to congenital anomalies was 7.67 deaths per 10,000 live births, and the stillbirth rate was 12.61 per 10,000 total births.
- Among 32 infant deaths due to congenital anomalies in 1999, the most common cause was anomalies of the heart and circulatory system (10 deaths) followed by congenital anomalies of the respiratory system (7 deaths). For stillbirths due to congenital anomalies (53 deaths), the most common cause was chromosomal anomalies (19 deaths), followed by multiple congenital anomalies (14 deaths).
- Of the 83 deaths in the early neonatal period (age at death under 7 days), over three quarters (78.3%) were due to perinatal complications (65 deaths). The most common causes of early neonatal deaths in 1999 were respiratory conditions of fetus and newborn (19), complications of placenta, cord and membranes (15), and complications of pregnancy, labour and delivery (9).
- Among the 105 infant deaths in the neonatal period (age at death less than 28 days), 22 deaths (21.0%) were due to congenital anomalies. Similarly, in the post neonatal period (age at death 28–364 days), 19.6% of infant deaths (10 out of 51) were due to congenital anomalies.
- Perinatal deaths refers to fetal deaths (stillbirths) and neonatal deaths (age at death less than 28 days). Based on the information in this table, there were 399 perinatal deaths in 1999 for a perinatal mortality rate of 94.93 deaths per 10,000 total births.
- There were 51 infant deaths in the post neonatal period (28 to 364 days after birth). Sudden Infant Death Syndrome (SIDS) was tied with congenital anomalies as the leading cause of post neonatal deaths in 1999. SIDS and congenital anomalies each accounted for almost one fifth (19.6%) of post neonatal deaths (10 of 51 deaths). All of the 10 deaths due to SIDS in 1999 were in the post neonatal period. The number of SIDS deaths may be under-counted since some deaths, which were under investigation when this report was prepared, may later be coded as SIDS.

TABLE 28
DEATHS DUE TO AIDS AND HIV INFECTION BY GENDER AND AGE GROUP
BRITISH COLUMBIA, 1987–1999

Year of Death	Gender	Age at Death (in Years) <20	20–29	30–39	40–49	50–59	60+	Total
1987	M	–	12	39	25	5	4	85
	F	–	–	–	2	–	–	2
	T	–	12	39	27	5	4	87
	Percent	–	13.8	44.8	31.0	5.7	4.6	100.0
1988	M	–	15	39	37	12	7	110
	F	1	1	–	1	1	–	4
	T	1	16	39	38	13	7	114
	Percent	0.9	14.0	34.2	33.3	11.4	6.1	100.0
1989	M	–	11	60	48	9	4	132
	F	1	1	1	–	1	–	4
	T	1	12	61	48	10	4	136
	Percent	0.7	8.8	44.9	35.3	7.4	2.9	100.0
1990	M	–	17	71	73	18	6	185
	F	–	1	–	1	1	–	3
	T	–	18	71	74	19	6	188
	Percent	–	9.6	37.8	39.4	10.1	3.2	100.0
1991	M	–	14	78	54	23	6	175
	F	–	–	1	–	–	1	2
	T	–	14	79	54	23	7	177
	Percent	–	7.9	44.6	30.5	13.0	4.0	100.0
1992	M	–	28	101	89	22	5	245
	F	–	1	3	2	–	–	6
	T	–	29	104	91	22	5	251
	Percent	–	11.6	41.4	36.3	8.8	2.0	100.0
1993	M	–	28	113	94	34	15	284
	F	–	3	8	2	1	1	15
	T	–	31	121	96	35	16	299
	Percent	–	10.4	40.5	32.1	11.7	5.4	100.0
1994	M	–	19	147	101	29	12	308
	F	2	5	10	2	2	2	23
	T	2	24	157	103	31	14	331
	Percent	0.6	7.3	47.4	31.1	9.4	4.2	100.0
1995	M	–	17	116	103	30	9	275
	F	–	6	7	4	1	1	19
	T	–	23	123	107	31	10	294
	Percent	–	7.8	41.8	36.4	10.5	3.4	100.0
1996	M	3	9	106	72	34	10	234
	F	–	4	6	5	–	1	16
	T	3	13	112	77	34	11	250
	Percent	1.2	5.2	44.8	30.8	13.6	4.4	100.0
1997	M	–	11	40	32	11	6	100
	F	–	2	6	4	1	2	15
	T	–	13	46	36	12	8	115
	Percent	–	11.3	40.0	31.3	10.4	7.0	100.0
1998	M	–	6	31	44	7	4	92
	F	–	4	8	3	1	1	17
	T	–	10	39	47	8	5	109
	Percent	–	9.2	35.8	43.1	7.3	4.6	100.0
1999	M	1	3	36	32	13	3	88
	F	–	–	4	7	1	–	12
	T	1	3	40	39	14	3	100
	Percent	1.0	3.0	40.0	39.0	14.0	3.0	100.0
1987–1999	**M**	**4**	**190**	**977**	**804**	**247**	**91**	**2,313**
	F	**4**	**28**	**54**	**33**	**10**	**9**	**138**
	T	**8**	**218**	**1,031**	**837**	**257**	**100**	**2,451**
	Percent	**0.3**	**8.9**	**42.1**	**34.1**	**10.5**	**4.1**	**100.0**

Note: Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.

TABLE 28
DEATHS DUE TO AIDS AND HIV INFECTION BY GENDER AND AGE GROUP
BRITISH COLUMBIA, 1987–1999

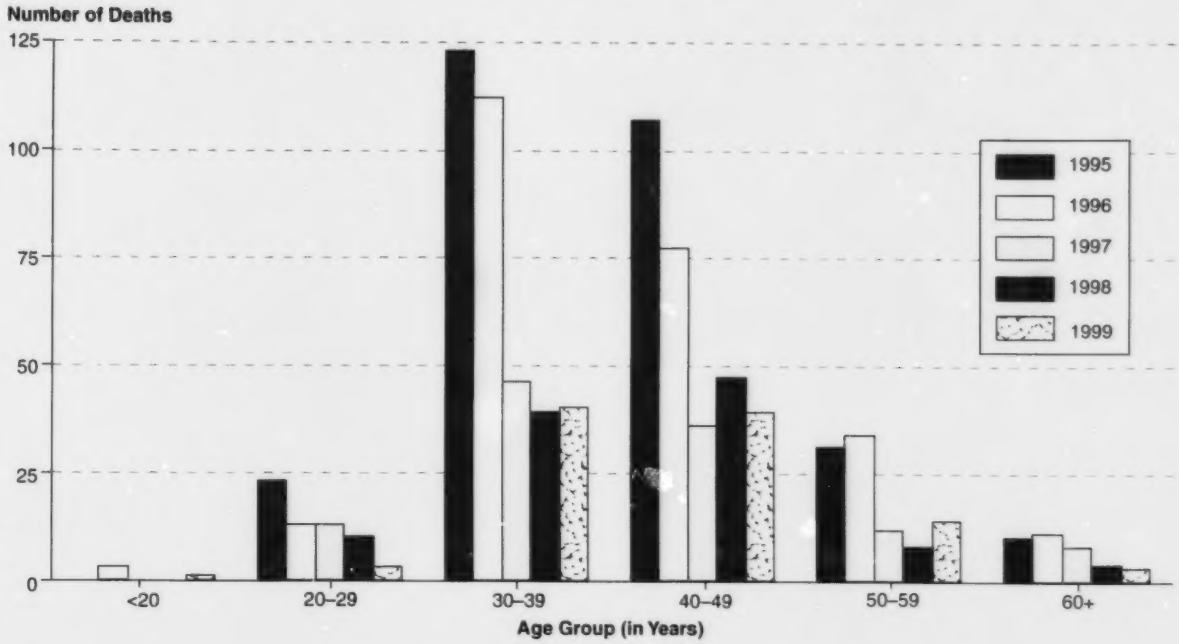
Year of Death	Gender	Age at Death (in Years) <20	20–29	30–39	40–49	50–59	60+	Total
1987	M	–	12	39	25	5	4	85
	F	–	–	–	2	–	–	2
	T	–	12	39	27	5	4	87
	Percent	–	13.8	44.8	31.0	5.7	4.6	100.0
1988	M	–	15	39	37	12	7	110
	F	1	1	–	1	1	–	4
	T	1	16	39	38	13	7	114
	Percent	0.9	14.0	34.2	33.3	11.4	6.1	100.0
1989	M	–	11	60	48	9	4	132
	F	1	1	1	–	1	–	4
	T	1	12	61	48	10	4	136
	Percent	0.7	8.8	44.9	35.3	7.4	2.9	100.0
1990	M	–	17	71	73	18	6	185
	F	–	1	–	1	1	–	3
	T	–	18	71	74	19	6	188
	Percent	–	9.6	37.8	39.4	10.1	3.2	100.0
1991	M	–	14	78	54	23	6	175
	F	–	–	1	–	–	1	2
	T	–	14	79	54	23	7	177
	Percent	–	7.9	44.6	30.5	13.0	4.0	100.0
1992	M	–	28	101	89	22	5	245
	F	–	1	3	2	–	–	6
	T	–	29	104	91	22	5	251
	Percent	–	11.6	41.4	36.3	8.8	2.0	100.0
1993	M	–	28	113	94	34	15	284
	F	–	3	8	2	1	1	15
	T	–	31	121	96	35	16	299
	Percent	–	10.4	40.5	32.1	11.7	5.4	100.0
1994	M	–	19	147	101	29	12	308
	F	2	5	10	2	2	2	23
	T	2	24	157	103	31	14	331
	Percent	0.6	7.3	47.4	31.1	9.4	4.2	100.0
1995	M	–	17	116	103	30	9	275
	F	–	6	7	4	1	1	19
	T	–	23	123	107	31	10	294
	Percent	–	7.8	41.8	36.4	10.5	3.4	100.0
1996	M	3	9	106	72	34	10	234
	F	–	4	6	5	–	1	16
	T	3	13	112	77	34	11	250
	Percent	1.2	5.2	44.8	30.8	13.6	4.4	100.0
1997	M	–	11	40	32	11	6	100
	F	–	2	6	4	1	2	15
	T	–	13	46	36	12	8	115
	Percent	–	11.3	40.0	31.3	10.4	7.0	100.0
1998	M	–	6	31	44	7	4	92
	F	–	4	8	3	1	1	17
	T	–	10	39	47	8	5	109
	Percent	–	9.2	35.8	43.1	7.3	4.6	100.0
1999	M	1	3	36	32	13	3	88
	F	–	–	4	7	1	–	12
	T	1	3	40	39	14	3	100
	Percent	1.0	3.0	40.0	39.0	14.0	3.0	100.0
1987–1999	**M**	**4**	**190**	**977**	**804**	**247**	**91**	**2,313**
	F	**4**	**28**	**54**	**33**	**10**	**9**	**138**
	T	**8**	**218**	**1,031**	**837**	**257**	**100**	**2,451**
	Percent	**0.3**	**8.9**	**42.1**	**34.1**	**10.5**	**4.1**	**100.0**

Note: Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.

FIGURE 17

DEATHS DUE TO AIDS AND HIV INFECTION BY AGE GROUP

BRITISH COLUMBIA, 1995–1999



HIGHLIGHTS TO TABLE 28/FIGURE 17

All deaths where AIDS/HIV infection was noted on the record were reviewed to ensure that the underlying cause of death code reflected current knowledge of the diseases related to AIDS.

- There were 100 deaths from AIDS/HIV infection in 1999; this was a 8.3% decrease from 109 deaths in 1998, and the lowest number of deaths since the first year AIDS/HIV was assigned the ICD9 codes 042–044 in 1987. From 1987 to 1999, there have been a total of 2,451 AIDS/HIV deaths in the province.
- The number of deaths from AIDS/HIV peaked at 331 in 1994 and has decreased each year since. The largest decrease occurred in 1997 when the number of AIDS/HIV deaths dropped by more than 50% from 250 in 1996 to 115 in 1997.
- Over the thirteen-year period from 1987–1999, the majority of (94.4%) of all AIDS/HIV infection deaths were males (2,313 deaths). Only 5.6% (138) of deaths from AIDS/HIV were in the female population in the same time period. Male deaths from this cause have decreased each year from 1994; the 88 male deaths in 1999 was only slightly higher than the 85 first recorded in 1987. Up to 1992, the number of female deaths from AIDS/HIV remained under six per year; and has ranged from a high of 23 in 1994 to a low of 12 in 1999.
- More than three quarters of all people who died from AIDS/HIV infections were between 30 and 49 years old. The age distribution of AIDS/HIV deaths showed considerable variation from year to year. For the 1987–1999 period, out of every 100 deaths from AIDS/HIV infection:
  - less than 1 was in the under 20 age group (8 deaths)
  - 9 were in the 20–29 age group (218)
  - 42 were in the 30–39 age group (1,031)
  - 34 were in the 40–49 age group (837)
  - 10 were in the 50–59 age group (257)
  - 4 were at least 60 years of age (100)
- Figure 17 graphs the number of deaths by age group for the most recent five-year period from 1995 to 1999. Generally, the number of AIDS/HIV deaths in each age group tended to decrease from year to year in most age groups. The 30–39 and 40–49 age groups showed the greatest changes. In the 30–39 age group, the annual number of deaths from AIDS/HIV infection decreased from a high of 123 in 1995 to 39 in 1998 and to 40 in 1999. The 40–49 age group's highest number of deaths (107) was in 1995, and after an increase from 36 deaths in 1997 to 47 in 1998, the number of deaths decreased to 39 in 1999.

TABLE 29
DEATHS DUE TO AIDS AND HIV INFECTION BY HEALTH REGION
BRITISH COLUMBIA, 1987–1999

	Health Region	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1987–1999 Number	Percent	Rate
01	East Kootenay	–	–	–	–	1	–	–	–	1	–	2	–	–	4	0.2	0.41
02	West Kootenay–Boundary	1	–	–	2	–	–	1	1	3	1	–	1	1	11	0.4	1.10
03	North Okanagan	–	1	–	1	1	3	4	–	3	–	–	1	1	15	0.6	1.11
04	South Okanagan Similkameen	2	2	1	1	1	7	6	6	6	7	2	3	1	45	1.8	1.75
05	Thompson	2	–	–	2	2	2	3	1	–	1	2	2	2	19	0.8	1.21
06	Fraser Valley	–	–	4	2	1	4	6	7	6	7	1	5	3	46	1.9	1.72
07	South Fraser Valley	2	4	8	6	10	15	12	19	17	22	6	4	11	136	5.5	2.16
08	Simon Fraser	4	3	9	13	5	5	10	12	14	6	5	4	2	92	3.8	2.62
09	Coast Garibaldi	1	2	1	–	–	1	3	3	–	1	3	1	–	16	0.7	1.86
10	Central Vancouver Island	2	1	4	1	4	16	6	12	14	6	4	3	3	76	3.1	2.77
11	Upper Island/Central Coast	1	4	–	2	1	1	3	4	2	1	1	1	1	22	0.9	1.58
12	Cariboo	–	–	–	–	–	–	1	2	2	2	–	–	–	7	0.3	0.78
13	North West	–	–	–	1	–	1	1	–	2	1	–	–	–	6	0.2	0.53
14	Peace Liard	–	–	–	–	2	–	–	1	1	–	–	1	–	5	0.2	0.63
15	Northern Interior	–	3	–	1	1	–	1	2	2	5	2	2	–	19	0.8	1.19
16	Vancouver	53	72	84	124	108	148	192	201	179	145	62	64	52	1,484	60.5	22.21
17	Burnaby	4	5	7	3	9	10	15	12	7	9	4	2	4	91	3.7	4.04
18	North Shore	5	6	6	11	9	13	14	12	11	10	4	3	4	108	4.4	4.94
19	Richmond	5	4	–	6	6	5	1	7	7	4	5	2	2	54	2.2	2.97
20	Capital	5	7	12	12	16	20	20	28	17	21	10	10	13	191	7.8	4.67
	N.S.	–	–	–	–	–	–	–	1	–	1	2	–	–	4	0.2	–
	PROVINCIAL TOTAL	**87**	**114**	**136**	**188**	**177**	**251**	**299**	**331**	**294**	**250**	**115**	**109**	**100**	**2,451**	**100.0**	**5.28**

Note: Health Region based on usual residence.
Rate per 100,000 population in specified area.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded. N.S. – Not Stated.

HIGHLIGHTS TO TABLE 29

- Over the thirteen-year period, 1987–1999, 60.5% of the 2,451 deaths from AIDS/HIV infection were to residents of the Vancouver Health Region (1,484 deaths). In 1999, 52 of the 100 AIDS/HIV deaths were residents of Vancouver. Many individuals infected with AIDS/HIV may have moved to the Vancouver Health Region on a permanent basis to be closer to treatment facilities or other support services.
- The only other health regions with over one hundred AIDS/HIV deaths during the 1987–1999 period were the Capital (191), South Fraser Valley (136), and North Shore (108).
- The provincial rate for deaths due to AIDS/HIV infection, for the period 1987–1999, was 5.28 per 100,000 population. The health regions with the highest rates for deaths due to AIDS/HIV infection (total deaths for 1987–1999 in parentheses) were:

016	Vancouver	22.21	(1,484)
018	North Shore	4.94	(108)
020	Capital	4.67	(191)
017	Burnaby	4.04	(91)
019	Richmond	2.97	(54)

TABLE 29
DEATHS DUE TO AIDS AND HIV INFECTION BY HEALTH REGION
BRITISH COLUMBIA, 1987–1999

	Health Region	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1987–1999 Number	Percent	Rate
01	East Kootenay	–	–	–	–	1	–	–	–	1	–	2	–	–	4	0.2	0.41
02	West Kootenay–Boundary	1	–	–	2	–	–	1	1	3	1	–	1	1	11	0.4	1.10
03	North Okanagan	–	1	–	1	1	3	4	–	3	–	–	1	1	15	0.6	1.11
04	South Okanagan Similkameen	2	2	1	1	1	7	6	6	6	7	2	3	1	45	1.8	1.75
05	Thompson	2	–	–	2	2	2	3	1	–	1	2	2	2	19	0.8	1.21
06	Fraser Valley	–	–	4	2	1	4	6	7	6	7	1	5	3	46	1.9	1.72
07	South Fraser Valley	2	4	8	6	10	15	12	19	17	22	6	4	11	136	5.5	2.16
08	Simon Fraser	4	3	9	13	5	5	10	12	14	6	5	4	2	92	3.8	2.62
09	Coast Garibaldi	1	2	1	–	–	1	3	3	–	1	3	1	–	16	0.7	1.86
10	Central Vancouver Island	2	1	4	1	4	16	6	12	14	6	4	3	3	76	3.1	2.77
11	Upper Island/Central Coast	1	4	–	2	1	1	3	4	2	1	1	1	1	22	0.9	1.58
12	Cariboo	–	–	–	–	–	–	1	2	2	2	–	–	–	7	0.3	0.78
13	North West	–	–	–	1	–	1	1	–	2	1	–	–	–	6	0.2	0.53
14	Peace Liard	–	–	–	–	2	–	–	1	1	–	–	1	–	5	0.2	0.63
15	Northern Interior	–	3	–	1	1	–	1	2	2	5	2	2	–	19	0.8	1.19
16	Vancouver	53	72	84	124	108	148	192	201	179	145	62	64	52	1,484	60.5	22.21
17	Burnaby	4	5	7	3	9	10	15	12	7	9	4	2	4	91	3.7	4.04
18	North Shore	5	6	6	11	9	13	14	12	11	10	4	3	4	108	4.4	4.94
19	Richmond	5	4	–	6	6	5	1	7	7	4	5	2	2	54	2.2	2.97
20	Capital	5	7	12	12	16	20	20	28	17	21	10	10	13	191	7.8	4.67
	N.S.	–	–	–	–	–	–	–	1	–	1	2	–	–	4	0.2	–
	PROVINCIAL TOTAL	**87**	**114**	**136**	**188**	**177**	**251**	**299**	**331**	**294**	**250**	**115**	**109**	**100**	**2,451**	**100.0**	**5.28**

Note: Health Region based on usual residence.
Rate per 100,000 population in specified area.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded. N.S. – Not Stated.

HIGHLIGHTS TO TABLE 29

- Over the thirteen-year period, 1987–1999, 60.5% of the 2,451 deaths from AIDS/HIV infection were to residents of the Vancouver Health Region (1,484 deaths). In 1999, 52 of the 100 AIDS/HIV deaths were residents of Vancouver. Many individuals infected with AIDS/HIV may have moved to the Vancouver Health Region on a permanent basis to be closer to treatment facilities or other support services.
- The only other health regions with over one hundred AIDS/HIV deaths during the 1987–1999 period were the Capital (191), South Fraser Valley (136), and North Shore (108).
- The provincial rate for deaths due to AIDS/HIV infection, for the period 1987–1999, was 5.28 per 100,000 population. The health regions with the highest rates for deaths due to AIDS/HIV infection (total deaths for 1987–1999 in parentheses) were:

016	Vancouver	22.21	(1,484)
018	North Shore	4.94	(108)
020	Capital	4.67	(191)
017	Burnaby	4.04	(91)
019	Richmond	2.97	(54)

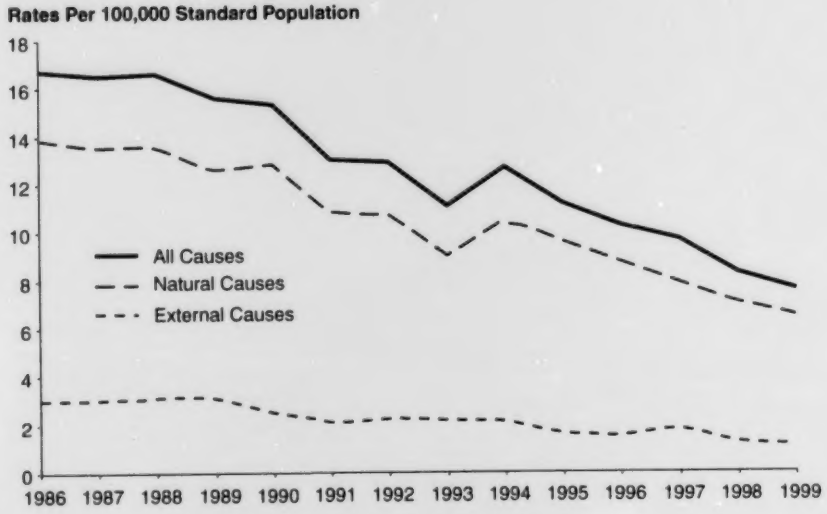
VITAL STATISTICS INFORMATION BOX

TRENDS IN CHILD MORTALITY (UNDER 19 YEARS OF AGE) IN BRITISH COLUMBIA

There were a total of 5,661 child deaths (aged 0 to 18 years of age) in B.C. over the fourteen year period 1986–1999. This particular age group, under 19 years of age, is used by the Ministry for Children and Families and other groups dealing with children under the *legal age*. The age standardized mortality rates for children declined significantly in this period from 16.7 deaths per 100,000 standard population under 19 years of age in 1986, to 7.6 in 1999.

More than eight out of every ten child deaths from 1986 to 1999 were due to natural causes. The age-specific mortality rates for natural causes showed an overall decreasing trend over the fourteen years. External causes of death (accidents, homicides and suicides) exhibited a smaller decline in age-specific mortality rates for children in this age group, compared to natural causes.

AGE STANDARDIZED MORTALITY RATES (UNDER 19 YEARS OF AGE)
BRITISH COLUMBIA, 1986–1999



CHILD DEATHS AND AGE STANDARDIZED MORTALITY RATES (UNDER 19 YEARS OF AGE)
BRITISH COLUMBIA, 1986–1999

Cause of Death	Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Total
Natural Causes	Deaths	401	399	398	385	408	348	350	295	350	321	299	264	233	211	4,662
	Rate	13.8	13.5	13.5	12.6	12.8	10.8	10.7	9.0	10.5	9.6	8.8	7.9	7.0	6.5	
External Causes	Deaths	87	90	94	95	79	70	74	74	75	58	55	64	45	39	999
	Rate	3.0	3.0	3.1	3.1	2.5	2.1	2.2	2.2	2.1	1.6	1.5	1.8	1.2	1.1	
All Causes	Deaths	488	489	492	480	487	418	424	369	425	379	354	328	278	250	5,661
	Rate	16.7	16.5	16.6	15.6	15.3	13.0	12.9	11.1	12.7	11.2	10.3	9.7	8.3	7.6	

Notes: Age standardized mortality rates (ASMR) – deaths per 100,000 standard population in the 0–18 age groups.
Natural causes includes deaths due to unknown causes.

TABLE 30
DEATHS FROM ACCIDENTS AND VIOLENCE BY GENDER
BRITISH COLUMBIA, 1999

Cause of Death (ICD9 Code)	Male		Female		Total	
	Number	ASMR	Number	ASMR	Number	ASMR
Motor vehicle accidents (E810–E825)	244	1.23	109	0.51	353	0.87
Other transport accidents (E800–E807, E826–E848)	38	0.19	8	0.03	46	0.11
Accidental poisoning (E850–E869)	227	1.08	71	0.34	298	0.71
Accidental falls (E880–E888)	194	1.00	173	0.52	367	0.73
Accident caused by fire/flames (E890–E899)	18	0.09	8	0.03	26	0.06
Drowning/submersion (E910)	27	0.14	9	0.05	36	0.09
Accident caused by machinery (E919)	8	0.04	–	–	8	0.02
Accident caused by firearm (E922)	3	0.01	–	–	3	0.01
All other accidents (E870–E879, E900–E909, E911–E918, E920–E921, E923–E949, E970–E978)	94	0.47	52	0.21	146	0.33
Suicide (E950–E959)	337	1.61	84	0.37	421	0.99
Homicide (E960–E969)	30	0.15	16	0.08	46	0.11
Undetermined if accident (E980–E989)	18	0.09	12	0.05	30	0.07
Late effects of injury due to war operation (E999)	–	–	–	–	–	–
TOTAL (E800–E999)	**1,238**	**6.09**	**542**	**2.20**	**1,780**	**4.11**

Note: ASMR – Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census). Reports before 1998 used a different standard population, therefore ASMRs should not be compared to pre-1998 reports. Non-residents are excluded.

TABLE 30
DEATHS FROM ACCIDENTS AND VIOLENCE BY GENDER
BRITISH COLUMBIA, 1999

Cause of Death (ICD9 Code)	Male		Female		Total	
	Number	ASMR	Number	ASMR	Number	ASMR
Motor vehicle accidents (E810–E825)	244	1.23	109	0.51	353	0.87
Other transport accidents (E800–E807, E826–E848)	38	0.19	8	0.03	46	0.11
Accidental poisoning (E850–E869)	227	1.08	71	0.34	298	0.71
Accidental falls (E880–E888)	194	1.00	173	0.52	367	0.73
Accident caused by fire/flames (E890–E899)	18	0.09	8	0.03	26	0.06
Drowning/submersion (E910)	27	0.14	9	0.05	36	0.09
Accident caused by machinery (E919)	8	0.04	–	–	8	0.02
Accident caused by firearm (E922)	3	0.01	–	–	3	0.01
All other accidents (E870–E879, E900–E909, E911–E918, E920–E921, E923–E949, E970–E978)	94	0.47	52	0.21	146	0.33
Suicide (E950–E959)	337	1.61	84	0.37	421	0.99
Homicide (E960–E969)	30	0.15	16	0.08	46	0.11
Undetermined if accident (E980–E989)	18	0.09	12	0.05	30	0.07
Late effects of injury due to war operation (E999)	–	–	–	–	–	–
TOTAL (E800–E999)	**1,238**	**6.09**	**542**	**2.20**	**1,780**	**4.11**

Note: ASMR – Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census). Reports before 1998 used a different standard population, therefore ASMRs should not be compared to pre-1998 reports. Non-residents are excluded.

HIGHLIGHTS TO TABLE 30

- Accidents and violence, also called external causes, include all deaths from accidents, suicide, homicide, and deaths where it could not be determined if it was accidental or intentional. In 1999, there were 1,780 deaths from accidents and violence among B.C. residents.
- Out of every 1,000 of all deaths in 1999:
  - approximately 936 deaths were from natural causes (please refer to Table 21)
  - 64 deaths were from accidents and violence, of which:
    - ~ 15 were suicides (421)
    - ~ 13 were accidental falls (367)
    - ~ 13 were motor vehicle accidents (353)
    - ~ 11 were accidental poisonings, including drug overdoses (298)
    - ~ 2 were homicides (46)
    - ~ 1 was drowning/submersion (36)
    - ~ 1 was from fire/flames (26)
    - ~ 8 were other accidental deaths (233)
- The Age Standardized Mortality Rate (ASMR) for deaths from accidents and violence was 4.11 deaths per 10,000 standard population in 1999. The ASMR for males was 6.09; the ASMR for females was 2.20 in 1999. On average, males accounted for seven out of ten deaths from accidents and violence (69.6%), which was the same as 1998.
- For males and females, the most important causes of death from accidents and violence are shown below, ranked by number of deaths in 1999. ASMRs per 10,000 male or female standard population are shown in parentheses.

Males			*Females*		
suicide	337	(1.61)	accidental falls	173	(0.52)
motor vehicle accidents	244	(1.23)	motor vehicle accidents	109	(0.51)
accidental poisoning	227	(1.08)	suicide	84	(0.37)

- Standardized Mortality Ratios (SMRs) and Potential Years of Life Lost Index (PYLLI) for deaths from suicide motor vehicle accidents, accidental poisoning, and accidental falls for 1995–1999 are presented in Appendix 3.

DEATHS FROM ACCIDENTS AND VIOLENCE BY LOCAL HEALTH AREA

Local Health Area		Motor Vehicle Accidents	Other Transport Accidents	Accidental		Fire/ Flames	Accidental Drowning/ Submersion	Suicide	Homicide	Other	Total	
				Poisoning	Falls						Deaths	ASMR
001	Fernie	2	–	–	–	–	–	1	–	–	3	1.35
002	Cranbrook	4	1	–	2	–	–	1	–	2	10	3.82
003	Kimberley	2	1	–	–	–	–	1	–	–	4	6.44
004	Windermere	–	–	–	–	–	–	1	–	1	2	1.70
005	Creston	2	–	–	2	–	1	1	1	–	7	6.28
006/007	Kootenay Lake/Nelson	9	1	1	3	2	–	6	–	2	24	7.41
009	Castlegar	3	–	1	3	–	–	3	–	1	11	7.46
010	Arrow Lakes	1	–	–	2	1	–	–	–	–	4	4.88
011	Trail	2	3	–	2	–	–	4	–	–	11	4.73
012/013	Grand Forks/Kettle Valley	5	–	2	2	–	–	–	1	–	10	6.34
014	Southern Okanagan	3	–	–	2	1	–	2	–	1	9	2.60
015	Penticton	8	2	2	5	–	–	5	1	5	28	5.85
016	Keremeos	2	–	–	–	–	–	–	–	–	2	3.94
017	Princeton	1	–	–	2	–	–	–	–	–	3	3.66
018	Golden	2	1	–	–	–	–	1	–	1	5	7.08
019	Revelstoke	1	1	–	2	–	1	1	–	1	7	8.37
020	Salmon Arm	6	–	1	6	–	–	–	–	2	15	3.69
021	Armstrong–Spallumcheen	5	–	–	1	–	–	1	–	–	7	5.55
022	Vernon	7	1	2	6	–	–	7	–	1	24	3.39
023	Central Okanagan	10	1	7	15	1	3	23	4	9	73	4.26
024	Kamloops	15	2	7	11	–	1	7	2	6	51	4.86
025	100 Mile House	–	–	2	1	–	–	2	–	–	5	3.04
026	North Thompson	4	–	–	1	–	–	2	–	–	7	15.67
027	Cariboo–Chilcotin	8	2	–	3	–	–	5	–	4	22	8.31
028	Quesnel	1	–	2	4	2	1	3	–	2	15	5.92
029	Lillooet	5	–	1	–	–	–	1	1	–	8	17.72
030	South Cariboo	1	–	–	1	–	–	2	–	–	4	5.29
031	Merritt	3	–	3	1	–	–	1	2	1	11	8.91
032	Hope	3	–	–	–	–	–	2	–	–	5	6.35
033	Chilliwack	11	–	4	7	1	–	5	2	7	37	4.95
034	Abbotsford	6	–	7	4	–	–	16	–	11	44	3.89
035	Langley	5	1	7	6	1	1	10	–	8	39	3.35
036	Surrey	30	2	38	18	1	–	37	4	12	142	3.93
037	Delta	2	–	1	5	–	–	4	–	1	13	1.23
038	Richmond	4	1	2	12	1	1	8	1	5	35	1.88
040	New Westminster	2	–	10	4	–	–	8	–	2	26	3.77
041	Burnaby	12	1	10	15	–	1	11	1	5	56	2.70
042	Maple Ridge	14	–	5	2	1	–	7	–	–	29	3.91
043	Coquitlam	9	–	9	12	2	–	10	2	1	45	2.54
044	North Vancouver	7	1	4	12	–	2	11	–	–	37	2.82
045	West Vancouver–Bowen Is.	2	–	1	5	–	1	6	–	3	18	3.04
046	Sunshine Coast	2	–	3	2	1	3	3	–	–	14	5.55
047	Powell River	1	–	–	2	1	–	2	1	–	7	2.56
048	Howe Sound	4	4	1	4	–	–	4	1	2	20	7.98
049	Bella Coola Valley	1	–	–	–	–	–	2	1	–	4	10.71
050	Queen Charlotte	–	1	–	–	–	–	4	–	1	6	11.36
051	Snow Country	–	–	–	–	–	–	–	–	–	–	–
052	Prince Rupert	1	1	1	1	–	2	4	–	–	10	5.15
053	Upper Skeena	1	1	–	–	–	–	–	–	2	4	7.90
054	Smithers	1	–	–	–	–	–	1	–	–	2	1.22
055/093	Burns Lake/Eutsuk	5	–	–	–	–	–	1	–	–	6	6.66
056	Nechako	7	–	–	1	–	–	1	–	1	10	5.66
057	Prince George	15	2	4	4	1	1	11	1	10	49	5.27
059	Peace River South	6	–	1	3	–	–	4	–	1	15	6.08
060	Peace River North	3	2	–	–	1	–	3	–	2	11	4.31
061	Greater Victoria	4	1	36	44	–	4	26	3	15	133	4.90
062	Sooke	1	–	1	6	–	–	7	3	1	19	3.48
063	Saanich	4	–	–	7	–	1	9	–	4	25	3.74
064	Gulf Islands	–	–	1	3	–	–	2	–	1	7	4.88
065	Cowichan	5	–	1	8	–	1	4	–	1	20	3.66
066	Lake Cowichan	1	–	–	–	–	–	1	–	–	2	4.25
067	Ladysmith	–	–	1	2	1	–	1	–	–	5	2.88
068	Nanaimo	7	1	10	5	–	1	15	1	6	46	4.62
069	Qualicum	7	1	–	11	–	–	1	–	3	23	4.60
070	Alberni	1	–	2	1	–	1	5	1	1	12	3.59
071	Courtenay	5	–	5	7	–	–	11	1	2	31	4.91
072/084	Campbell River/V.I. West	4	1	1	–	1	1	–	–	6	14	3.38
075	Mission	2	–	1	7	–	–	7	–	2	19	5.47
076	Agassiz–Harrison	1	1	–	2	–	–	1	–	–	5	6.38
077	Summerland	1	–	1	2	–	–	1	–	–	5	4.72
078	Enderby	6	–	–	2	1	–	1	–	–	10	13.39
080	Kitimat	2	–	1	–	–	–	3	–	1	7	8.01
081	Fort Nelson	1	–	–	–	–	–	–	–	–	1	1.38
083	Central Coast	–	1	–	–	–	–	1	–	–	2	9.64
085	Vancouver Island North	–	–	2	2	–	–	3	–	3	10	9.66
087/094	Stikine/Telegraph Creek	–	1	–	–	–	–	2	–	2	5	31.88
088	Terrace	2	–	–	–	–	–	2	–	6	10	4.72
092	Nishga	–	–	–	–	2	–	–	–	–	2	10.71
161	Vancouver City Centre	6	1	21	11	–	–	14	2	5	60	5.34
162	Vancouver Downtown E. Side	4	–	39	8	–	1	12	2	3	69	11.05
163	Vancouver North East	5	3	13	12	–	2	4	3	2	44	4.24
164	Vancouver West Side	5	1	6	18	–	4	13	–	4	51	3.23
165	Vancouver Midtown	6	–	12	6	–	1	6	2	2	35	3.76
166	Vancouver South	7	1	4	7	3	–	13	2	4	41	3.04
039	**VANCOUVER TOTAL**	**33**	**6**	**96**	**62**	**3**	**8**	**62**	**11**	**20**	**301**	**4.57**
	N.S.	–	–	–	–	–	–	–	–	–	–	–
	PROVINCIAL TOTAL	**353**	**46**	**298**	**367**	**26**	**36**	**421**	**46**	**187**	**1,780**	**4.11**
	PERCENT	**19.8**	**2.6**	**16.7**	**20.6**	**1.5**	**2.0**	**23.7**	**2.6**	**10.5**	**100.0**	

Note: Based on usual residence. ASMR – Age standardized mortality rate per 10,000 standard population. PERCENT – Provincial total for each cause as a percent of the Provincial total for all deaths from external causes. LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not Stated. Non-residents are excluded.

DEATHS FROM ACCIDENTS AND VIOLENCE BY LOCAL HEALTH AREA

Local Health Area		Motor Vehicle Accidents	Other Transport Accidents	Accidental		Fire/ Flames	Accidental Drowning/ Submersion	Suicide	Homicide	Other	Total	
				Poisoning	Falls						Deaths	ASMR
001	Fernie	2	–	–	–	–	–	1	–	–	3	1.35
002	Cranbrook	4	1	–	2	–	–	1	–	2	10	3.82
003	Kimberley	2	1	–	–	–	–	1	–	–	4	6.44
004	Windermere	–	–	–	–	–	–	1	–	1	2	1.70
005	Creston	2	–	–	2	–	1	1	1	–	7	6.28
006/007	Kootenay Lake/Nelson	9	1	1	3	2	–	6	–	2	24	7.41
009	Castlegar	3	–	1	3	–	–	3	–	1	11	7.46
010	Arrow Lakes	1	–	–	2	1	–	–	–	–	4	4.88
011	Trail	2	3	–	2	–	–	4	–	–	11	4.73
012/013	Grand Forks/Kettle Valley	5	–	2	2	–	–	–	1	–	10	6.34
014	Southern Okanagan	3	–	–	2	1	–	2	–	1	9	2.60
015	Penticton	8	2	2	5	–	–	5	1	5	28	5.85
016	Keremeos	2	–	–	–	–	–	–	–	–	2	3.94
017	Princeton	1	–	–	2	–	–	–	–	–	3	3.66
018	Golden	2	1	–	–	–	–	1	–	1	5	7.08
019	Revelstoke	1	1	–	2	–	1	1	–	1	7	8.37
020	Salmon Arm	6	–	1	6	–	–	–	–	2	15	3.69
021	Armstrong–Spallumcheen	5	–	–	1	–	–	1	–	–	7	5.55
022	Vernon	7	1	2	6	–	–	7	–	1	24	3.39
023	Central Okanagan	10	1	7	15	1	3	23	4	9	73	4.26
024	Kamloops	15	2	7	11	–	1	7	2	6	51	4.86
025	100 Mile House	–	–	2	1	–	–	2	–	–	5	3.04
026	North Thompson	4	–	–	1	–	–	2	–	–	7	15.67
027	Cariboo–Chilcotin	8	2	–	3	–	–	5	–	4	22	8.31
028	Quesnel	1	–	2	4	2	1	3	–	2	15	5.92
029	Lillooet	5	–	1	–	–	–	1	1	–	8	17.72
030	South Cariboo	1	–	–	1	–	–	2	–	–	4	5.29
031	Merritt	3	–	3	1	–	–	1	2	1	11	8.91
032	Hope	3	–	–	–	–	–	2	–	–	5	6.35
033	Chilliwack	11	–	4	7	1	–	5	2	7	37	4.95
034	Abbotsford	6	–	7	4	–	–	16	–	11	44	3.89
035	Langley	5	1	7	6	1	1	10	–	8	39	3.35
036	Surrey	30	2	38	18	1	–	37	4	12	142	3.93
037	Delta	2	–	1	5	–	–	4	–	1	13	1.23
038	Richmond	4	1	2	12	1	1	8	1	5	35	1.88
040	New Westminster	2	–	10	4	–	–	8	–	2	26	3.77
041	Burnaby	12	1	10	15	–	1	11	1	5	56	2.70
042	Maple Ridge	14	–	5	2	1	–	7	–	–	29	3.91
043	Coquitlam	9	–	9	12	2	–	10	2	1	45	2.54
044	North Vancouver	7	1	4	12	–	2	11	–	–	37	2.82
045	West Vancouver–Bowen Is.	2	–	1	5	–	1	6	–	3	18	3.04
046	Sunshine Coast	2	–	3	2	1	3	3	–	–	14	5.55
047	Powell River	1	–	–	2	1	–	2	1	–	7	2.56
048	Howe Sound	4	4	1	4	–	–	4	1	2	20	7.98
049	Bella Coola Valley	1	–	–	–	–	–	2	1	–	4	10.71
050	Queen Charlotte	–	1	–	–	–	–	4	–	1	6	11.36
051	Snow Country	–	–	–	–	–	–	–	–	–	–	–
052	Prince Rupert	1	1	1	1	–	2	4	–	–	10	5.15
053	Upper Skeena	1	1	–	–	–	–	–	–	2	4	7.90
054	Smithers	1	–	–	–	–	–	1	–	–	2	1.22
055/093	Burns Lake/Eutsuk	5	–	–	–	–	–	1	–	–	6	6.66
056	Nechako	7	–	–	1	–	–	1	–	1	10	5.66
057	Prince George	15	2	4	4	1	1	11	1	10	49	5.27
059	Peace River South	6	–	1	3	–	–	4	–	1	15	6.08
060	Peace River North	3	2	–	–	1	–	3	–	2	11	4.31
061	Greater Victoria	4	1	36	44	–	4	26	3	15	133	4.90
062	Sooke	1	–	1	6	–	–	7	3	1	19	3.48
063	Saanich	4	–	–	7	–	1	9	–	4	25	3.74
064	Gulf Islands	–	–	1	3	–	–	2	–	1	7	4.88
065	Cowichan	5	–	1	8	–	1	4	–	1	20	3.66
066	Lake Cowichan	1	–	–	–	–	–	1	–	–	2	4.25
067	Ladysmith	–	–	1	2	1	–	1	–	–	5	2.88
068	Nanaimo	7	1	10	5	–	1	15	1	6	46	4.62
069	Qualicum	7	1	–	11	–	–	1	–	3	23	4.60
070	Alberni	1	–	2	1	–	1	5	1	1	12	3.59
071	Courtenay	5	–	5	7	–	–	11	1	2	31	4.91
072/084	Campbell River/V.I. West	4	1	1	–	1	1	–	–	6	14	3.38
075	Mission	2	–	1	7	–	–	7	–	2	19	5.47
076	Agassiz–Harrison	1	1	–	2	–	–	1	–	–	5	6.38
077	Summerland	1	–	1	2	–	–	1	–	–	5	4.72
078	Enderby	6	–	–	2	1	–	1	–	–	10	13.39
080	Kitimat	2	–	1	–	–	–	3	–	1	7	8.01
081	Fort Nelson	1	–	–	–	–	–	–	–	–	1	1.38
083	Central Coast	–	1	–	–	–	–	1	–	–	2	9.64
085	Vancouver Island North	–	–	2	2	–	–	3	–	3	10	9.66
087/094	Stikine/Telegraph Creek	–	1	–	–	–	–	2	–	2	5	31.88
088	Terrace	2	–	–	–	–	–	2	–	6	10	4.72
092	Nishga	–	–	–	–	2	–	–	–	–	2	10.71
161	Vancouver City Centre	6	1	21	11	–	–	14	2	5	60	5.34
162	Vancouver Downtown E. Side	4	–	39	8	–	1	12	2	3	69	11.05
163	Vancouver North East	5	3	13	12	–	2	4	3	2	44	4.24
164	Vancouver West Side	5	1	6	18	–	4	13	–	4	51	3.23
165	Vancouver Midtown	6	–	12	6	–	1	6	2	2	35	3.76
166	Vancouver South	7	1	4	7	3	–	13	2	4	41	3.04
039	**VANCOUVER TOTAL**	**33**	**6**	**96**	**62**	**3**	**8**	**62**	**11**	**20**	**301**	**4.57**
	N.S.	–	–	–	–	–	–	–	–	–	–	–
	PROVINCIAL TOTAL	**353**	**46**	**298**	**367**	**26**	**36**	**421**	**46**	**187**	**1,780**	**4.11**
	PERCENT	**19.8**	**2.6**	**16.7**	**20.6**	**1.5**	**2.0**	**23.7**	**2.6**	**10.5**	**100.0**	

Note: Based on usual residence. ASMR – Age standardized mortality rate per 10,000 standard population. PERCENT – Provincial total for each cause as a percent of the Provincial total for all deaths from external causes. LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not Stated. Non-residents are excluded.

HIGHLIGHTS TO TABLE 31

- Deaths from accidents and violence are shown in this table based on the LHA of usual residence of the decedent, and not the location where the death occurred. Please also refer to Table 36 which presents data on deaths under age 75 years from accidents and violence, and Appendix 3 which shows various indicators for deaths from motor vehicle traffic accidents, accidental falls and suicide.
- During 1999, suicides (421 deaths) accounted for one in four deaths from accidents and violence. Accidental falls (367) and motor vehicle accidents (353) accounted for one in five each, and accidental poisoning (298), including overdoses, for one in six deaths from external causes.
- The Age Standardized Mortality Rate (ASMR) for deaths from accidents and violence was 4.11 deaths per 10,000 standard population. Based on the usual residence of the decedent, there were 43 Local Health Areas (LHAs) which had ASMRs greater than the provincial rate (based on five or more deaths from external causes). Of these LHAs, 10 had values, which were at least twice the provincial rate. The five highest ASMRs, based on five or more deaths from accidents and violence, (number of deaths in parentheses) were:

087/094	Stikine/Telegraph Creek	31.88	(5)
029	Lillooet	17.72	(8)
026	North Thompson	15.67	(7)
078	Enderby	13.39	(10)
050	Queen Charlotte	11.36	(6)

- There were 26 LHAs with accidents and violence ASMRs below the provincial rate (based on five or more deaths in the category), and Snow Country had no deaths from this cause in 1999. The five LHAs with the lowest ASMR values in 1999 for deaths from accidents and violence (based on five or more deaths in the category) were (number of deaths in parentheses):

037	Delta	1.23	(13)
038	Richmond	1.88	(35)
043	Coquitlam	2.54	(45)
047	Powell River	2.56	(7)
014	Southern Okanagan	2.60	(9)

- There were 353 deaths from motor vehicle accidents (MVA) in 1999 (ICD9 codes E810–E825). LHAs with 15 or more MVA deaths in 1999 were Surrey (30), Kamloops (15), and Prince George (15).
- In 1999, there were 298 deaths from accidental poisoning which includes drug overdoses. The four LHAs where 15 or more residents died from this cause were Vancouver Downtown East Side (39), Surrey (38), Greater Victoria (36) and Vancouver City Centre (21). Please refer to Table 45/Figure 27 for drug-induced deaths by LHA.
- Deaths from accidental falls occurred most often in 1999 to residents of Greater Victoria (44), Surrey (18), Vancouver West Side (18), Burnaby (15) and Central Okanagan (15).
- Suicide took 421 lives in 1999 and was the tenth leading cause of death in the province. Five LHAs had 15 or more suicides in 1999; the highest were Surrey (37), Greater Victoria (26), Central Okanagan (23), Abbotsford (16), and Nanaimo (15).

VITAL STATISTICS INFORMATION BOX

MORTALITY STATISTICS FOR ELDERLY SENIORS, 90 YEARS OF AGE OR OLDER

In 1999, there were over 17,200 B.C. residents aged 90 years or older. In all health regions, this elderly age group made up less than one percent of the population, ranging from 0.1% in the Northern Interior to 0.8% in the Capital Health Region.

Between 1995 and 1999, there were 16,615 deaths to B.C. residents aged 90 years and older in the province. The mortality rate for this age group was 213.47 deaths per 1,000 seniors 90 years or older. In a comparison of health regions, the 90+ mortality rates ranged from a low of 174.83 in North West, to 250.35 in Northern Interior.

The ten leading causes of death for those aged 90 and over, shown on the next page, accounted for 11,211 out of 16,615, or 67.5% of deaths in this age group. The top three causes of death were ischaemic heart disease, cerebrovascular disease, and pneumonia and influenza, which collectively were responsible for four in every ten deaths.

DEATHS AND MORTALITY RATES FOR ELDERLY SENIORS (90+ YEARS) BY HEALTH REGION

BRITISH COLUMBIA, 1995–1999

Health Region		Population 90+ Years 1999	% of Total Population 1999	Deaths 90+ Years of Age 1995	1996	1997	1998	1999	Total 1995–1999	Rate 1995–1999
01	East Kootenay	272	0.3	45	66	46	53	65	275	217.74
02	West Kootenay–Boundary	370	0.5	81	75	76	85	77	394	226.96
03	North Okanagan	549	0.5	117	100	98	124	118	557	219.98
04	South Okanagan Similkameen	1,338	0.6	232	252	271	282	283	1,320	213.90
05	Thompson	400	0.3	65	77	85	78	93	398	224.86
06	Fraser Valley	1,017	0.4	181	218	210	210	238	1,057	228.34
07	South Fraser Valley	2,083	0.4	354	356	362	378	387	1,837	208.28
08	Simon Fraser	1,047	0.3	163	185	199	209	205	961	214.37
09	Coast Garibaldi	282	0.4	57	37	37	37	61	229	201.23
10	Central Vancouver Island	990	0.4	161	200	189	226	218	994	222.17
11	Upper Island/Central Coast	329	0.3	48	59	54	72	77	310	214.68
12	Cariboo	130	0.2	28	20	22	35	20	125	226.45
13	North West	142	0.2	21	25	27	29	23	125	174.83
14	Peace Liard	113	0.2	22	20	18	23	23	106	185.96
15	Northern Interior	142	0.1	26	34	40	39	38	177	250.35
16	Vancouver	3,072	0.5	495	546	559	607	552	2,759	195.04
17	Burnaby	955	0.5	172	183	182	208	208	953	209.22
18	North Shore	905	0.5	1[illegible]	183	172	217	186	937	223.89
19	Richmond	562	0.3	[illegible]o	102	81	89	104	454	191.56
20	Capital	2,509	0.8	482	519	537	510	597	2,645	228.53
	N.S.			1	–	–	–	1	2	
	PROVINCIAL TOTAL	**17,207**	**0.4**	**3,008**	**3,257**	**3,265**	**3,511**	**3,574**	**16,615**	**213.47**
08/17	Simon Fraser/Burnaby	2,002	0.4	335	368	381	417	413	1,914	211.77
16/19	Vancouver/Richmond	3,634	0.5	573	648	640	696	656	3,213	194.54

Notes: Population 90+ Years – Population in the region aged 90 years or older in 1999.
% of Total Population – Percentage of the region's total population aged 90 years or older in 1999.
Deaths – Number of deaths in the region aged 90 years or older at time of death.
Rate – Deaths per 1,000 population in the 90+ age group in the specified region, 1995–1999.

TABLE 32
SUICIDE DEATHS BY MONTH AND GENDER
BRITISH COLUMBIA, 1999

Month	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
January	28	8.3	4	4.8	32	7.6
February	26	7.7	9	10.7	35	8.3
March	30	8.9	6	7.1	36	8.6
April	40	11.9	7	8.3	47	11.2
May	36	10.7	12	14.3	48	11.4
June	28	8.3	11	13.1	39	9.3
July	31	9.2	9	10.7	40	9.5
August	33	9.8	8	9.5	41	9.7
September	26	7.7	1	1.2	27	6.4
October	21	6.2	6	7.1	27	6.4
November	15	4.5	5	6.0	20	4.8
December	23	6.8	6	7.1	29	6.9
TOTAL	**337**	**100.0**	**84**	**100.0**	**421**	**100.0**

Note: Suicide Deaths – ICD9 = E950–E959.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.

HIGHLIGHTS TO TABLE 32

- Of the 421 suicide deaths in the province in 1999, four out of five (337) were male.
- The distribution of suicide deaths by month varies from year to year. In 1999, May had the most total suicides (48), with April in second place (47). November had the least (20) total suicides, followed by September and October with 27 suicides each.

VITAL STATISTICS INFORMATION BOX

LEADING CAUSES OF DEATH FOR ELDERLY SENIORS (90 YEARS OF AGE OR OLDER)
BRITISH COLUMBIA, 1995–1999

Cause of Death	ICD9 Codes	Deaths	Rate
Ischaemic heart disease	410–414	3,458	44.43
Cerebrovascular disease	430–438	1,951	25.07
Pneumonia and influenza	480–487	1,867	23.99
Heart failure	428	1,095	14.07
Senile dementias	290, 298.9	833	10.70
Cardiac dysrhythmias	427	560	7.19
Chronic obstructive lung disease	496	464	5.96
Accidental falls	E880–E888	456	5.86
Alzheimer's disease	331.0	282	3.62
Diabetes	250	245	3.15
Other causes		5,404	69.43
TOTAL (all causes)		**16,615**	**213.47**

Note: Rate – Deaths per 1,000 population in the 90+ age group.

VITAL STATISTICS INFORMATION BOX

MORTALITY STATISTICS FOR ELDERLY SENIORS, 90 YEARS OF AGE OR OLDER

In 1999, there were over 17,200 B.C. residents aged 90 years or older. In all health regions, this elderly age group made up less than one percent of the population, ranging from 0.1% in the Northern Interior to 0.8% in the Capital Health Region.

Between 1995 and 1999, there were 16,615 deaths to B.C. residents aged 90 years and older in the province. The mortality rate for this age group was 213.47 deaths per 1,000 seniors 90 years or older. In a comparison of health regions, the 90+ mortality rates ranged from a low of 174.83 in North West, to 250.35 in Northern Interior.

The ten leading causes of death for those aged 90 and over, shown on the next page, accounted for 11,211 out of 16,615, or 67.5% of deaths in this age group. The top three causes of death were ischaemic heart disease, cerebrovascular disease, and pneumonia and influenza, which collectively were responsible for four in every ten deaths.

DEATHS AND MORTALITY RATES FOR ELDERLY SENIORS (90+ YEARS) BY HEALTH REGION

BRITISH COLUMBIA, 1995–1999

Health Region		Population 90+ Years 1999	% of Total Population 1999	Deaths 90+ Years of Age 1995	1996	1997	1998	1999	Total 1995–1999	Rate 1995–1999
01	East Kootenay	272	0.3	45	66	46	53	65	275	217.74
02	West Kootenay–Boundary	370	0.5	81	75	76	85	77	394	226.96
03	North Okanagan	549	0.5	117	100	98	124	118	557	219.98
04	South Okanagan Similkameen	1,338	0.6	232	252	271	282	283	1,320	213.90
05	Thompson	400	0.3	65	77	85	78	93	398	224.86
06	Fraser Valley	1,017	0.4	181	218	210	210	238	1,057	228.34
07	South Fraser Valley	2,083	0.4	354	356	362	378	387	1,837	208.28
08	Simon Fraser	1,047	0.3	163	185	199	209	205	961	214.37
09	Coast Garibaldi	282	0.4	57	37	37	37	61	229	201.23
10	Central Vancouver Island	990	0.4	161	200	189	226	218	994	222.17
11	Upper Island/Central Coast	329	0.3	48	59	54	72	77	310	214.68
12	Cariboo	130	0.2	28	20	22	35	20	125	226.45
13	North West	142	0.2	21	25	27	29	23	125	174.83
14	Peace Liard	113	0.2	22	20	18	23	23	106	185.96
15	Northern Interior	142	0.1	26	34	40	39	38	177	250.35
16	Vancouver	3,072	0.5	495	546	559	607	552	2,759	195.04
17	Burnaby	955	0.5	172	183	182	208	208	953	209.22
18	North Shore	905	0.5	179	183	172	217	186	937	223.89
19	Richmond	562	0.3	78	102	81	89	104	454	191.56
20	Capital	2,509	0.8	482	519	537	510	597	2,645	228.53
	N.S.			1	–	–	–	1	2	
	PROVINCIAL TOTAL	**17,207**	**0.4**	**3,008**	**3,257**	**3,265**	**3,511**	**3,574**	**16,615**	**213.47**
08/17	Simon Fraser/Burnaby	2,002	0.4	335	368	381	417	413	1,914	211.77
16/19	Vancouver/Richmond	3,634	0.5	573	648	640	696	656	3,213	194.54

Notes: Population 90+ Years – Population in the region aged 90 years or older in 1999.
% of Total Population – Percentage of the region's total population aged 90 years or older in 1999.
Deaths – Number of deaths in the region aged 90 years or older at time of death.
Rate – Deaths per 1,000 population in the 90+ age group in the specified region, 1995–1999.

TABLE 32
SUICIDE DEATHS BY MONTH AND GENDER
BRITISH COLUMBIA, 1999

Month	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
January	28	8.3	4	4.8	32	7.6
February	26	7.7	9	10.7	35	8.3
March	30	8.9	6	7.1	36	8.6
April	40	11.9	7	8.3	47	11.2
May	36	10.7	12	14.3	48	11.4
June	28	8.3	11	13.1	39	9.3
July	31	9.2	9	10.7	40	9.5
August	33	9.8	8	9.5	41	9.7
September	26	7.7	1	1.2	27	6.4
October	21	6.2	6	7.1	27	6.4
November	15	4.5	5	6.0	20	4.8
December	23	6.8	6	7.1	29	6.9
TOTAL	**337**	**100.0**	**84**	**100.0**	**421**	**100.0**

Note: Suicide Deaths – ICD9 = E950–E959.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.

HIGHLIGHTS TO TABLE 32

- Of the 421 suicide deaths in the province in 1999, four out of five (337) were male.
- The distribution of suicide deaths by month varies from year to year. In 1999, May had the most total suicides (48), with April in second place (47). November had the least (20) total suicides, followed by September and October with 27 suicides each.

VITAL STATISTICS INFORMATION BOX

LEADING CAUSES OF DEATH FOR ELDERLY SENIORS (90 YEARS OF AGE OR OLDER)
BRITISH COLUMBIA, 1995–1999

Cause of Death	ICD9 Codes	Deaths	Rate
Ischaemic heart disease	410–414	3,458	44.43
Cerebrovascular disease	430–438	1,951	25.07
Pneumonia and influenza	480–487	1,867	23.99
Heart failure	428	1,095	14.07
Senile dementias	290, 298.9	833	10.70
Cardiac dysrhythmias	427	560	7.19
Chronic obstructive lung disease	496	464	5.96
Accidental falls	E880–E888	456	5.86
Alzheimer's disease	331.0	282	3.62
Diabetes	250	245	3.15
Other causes		5,404	69.43
TOTAL (all causes)		**16,615**	**213.47**

Note: Rate – Deaths per 1,000 population in the 90+ age group.

STANDARDIZED MORTALITY RATIO – ALL CAUSES OF DEATH

Local Health Area		1994–1998 Observed Deaths	1994–1998 SMR	(p)	1999 Observed Deaths	1999 Expected Deaths	1999 SMR	(p)	95% Confidence Interval Lower		Upper
001	Fernie	367	0.95		71	78.25	0.91		0.71	–	1.14
002	Cranbrook	820	1.10	*	165	152.01	1.09		0.93	–	1.26
003	Kimberley	364	0.94		88	80.45	1.09		0.88	–	1.35
004	Windermere	171	0.69	*	58	50.37	1.15		0.87	–	1.49
005	Creston	633	0.90	*	138	146.73	0.94		0.79	–	1.11
006/007	Kootenay Lake/Nelson	1,040	1.01		209	214.09	0.98		0.85	–	1.12
009	Castlegar	530	1.08		97	102.13	0.95		0.77	–	1.16
010	Arrow Lakes	248	1.07		50	48.54	1.03		0.76	–	1.36
011	Trail	1,107	1.17	*	178	197.22	0.90		0.77	–	1.05
012/013	Grand Forks/Kettle Valley	577	1.04		100	114.59	0.87		0.71	–	1.06
014	Southern Okanagan	1,090	0.96		241	237.28	1.02		0.89	–	1.15
015	Penticton	2,179	0.95	*	448	483.32	0.93		0.84	–	1.02
016	Keremeos	250	1.01		45	51.48	0.87		0.64	–	1.17
017	Princeton	232	1.19	*	53	40.14	1.32		0.99	–	1.73
018	Golden	185	1.10		30	34.12	0.88		0.59	–	1.26
019	Revelstoke	309	1.30	*	62	48.49	1.28		0.98	–	1.64
020	Salmon Arm	1,297	0.96		274	279.76	0.98		0.87	–	1.10
021	Armstrong–Spallumcheen	374	1.04		74	74.70	0.99		0.78	–	1.24
022	Vernon	2,426	1.01		532	501.00	1.06		0.97	–	1.16
023	Central Okanagan	5,314	0.86	*	1,230	1,286.32	0.96		0.90	–	1.01
024	Kamloops	3,288	1.11	*	692	607.39	1.14	*	1.06	–	1.23
025	100 Mile House	475	1.07		114	89.59	1.27	*	1.05	–	1.53
026	North Thompson	115	1.08		24	21.35	1.12		0.72	–	1.67
027	Cariboo–Chilcotin	735	1.26	*	141	117.00	1.21	*	1.01	–	1.42
028	Quesnel	725	1.15	*	136	128.30	1.06		0.89	–	1.25
029	Lillooet	165	1.26	*	37	26.75	1.38		0.97	–	1.91
030	South Cariboo	301	1.23	*	45	50.21	0.90		0.65	–	1.20
031	Merritt	405	1.26	*	82	65.53	1.25		1.00	–	1.55
032	Hope	447	1.35	*	79	68.40	1.15		0.91	–	1.44
033	Chilliwack	2,788	1.06	*	602	546.94	1.10	*	1.01	–	1.19
034	Abbotsford	3,823	0.95	*	806	837.77	0.96		0.90	–	1.03
035	Langley	3,354	1.00		725	687.93	1.05		0.98	–	1.13
036	Surrey	9,843	0.95	*	2,100	2,135.62	0.98		0.94	–	1.03
037	Delta	2,576	0.93	*	531	568.78	0.93		0.86	–	1.02
038	Richmond	3,787	0.81	*	811	956.86	0.85	*	0.79	–	0.91
040	New Westminster	2,485	1.13	*	520	457.58	1.14	*	1.04	–	1.24
041	Burnaby	6,799	0.99		1,290	1,423.18	0.91	*	0.86	–	0.96
042	Maple Ridge	2,201	1.10	*	452	407.52	1.11	*	1.01	–	1.22
043	Coquitlam	4,094	1.00		875	830.84	1.05		0.98	–	1.13
044	North Vancouver	3,820	0.96	*	801	813.23	0.98		0.92	–	1.06
045	West Vancouver–Bowen Is.	2,399	0.90	*	416	562.87	0.74	*	0.67	–	0.81
046	Sunshine Coast	1,080	1.00		235	223.43	1.05		0.92	–	1.20
047	Powell River	830	1.03		163	167.20	0.97		0.83	–	1.14
048	Howe Sound	522	1.12	*	113	92.29	1.22	*	1.01	–	1.47
049	Bella Coola Valley	89	1.34	*	19	13.42	1.42		0.85	–	2.21
050	Queen Charlotte	140	1.33	*	30	21.05	1.43		0.96	–	2.03
051	Snow Country	19	1.07		3	3.61	0.83		0.17	–	2.43
052	Prince Rupert	472	1.25	*	90	75.56	1.19		0.96	–	1.46
053	Upper Skeena	113	1.08		22	20.87	1.05		0.66	–	1.60
054	Smithers	336	0.99		81	67.77	1.20		0.95	–	1.49
055/093	Burns Lake/Eutsuk	215	1.15		50	38.06	1.31		0.98	–	1.73
056	Nechako	425	1.18	*	84	71.94	1.17		0.93	–	1.45
057	Prince George	2,212	1.19	*	472	370.71	1.27	*	1.16	–	1.39
059	Peace River South	710	1.06		144	135.95	1.06		0.89	–	1.25
060	Peace River North	559	1.04		107	107.02	1.00		0.82	–	1.21
061	Greater Victoria	11,218	1.01		2,316	2,344.29	0.99		0.95	–	1.03
062	Sooke	1,390	1.04		281	271.52	1.03		0.92	–	1.16
063	Saanich	2,566	0.84	*	591	637.92	0.93		0.85	–	1.00
064	Gulf Islands	625	0.84	*	136	154.96	0.88		0.74	–	1.04
065	Cowichan	1,814	0.97		388	384.96	1.01		0.91	–	1.11
066	Lake Cowichan	154	0.84	*	36	37.51	0.96		0.67	–	1.33
067	Ladysmith	819	1.16	*	182	146.70	1.24	*	1.07	–	1.43
068	Nanaimo	3,362	1.03		717	673.81	1.06		0.99	–	1.14
069	Qualicum	1,882	0.94	*	420	414.07	1.01		0.92	–	1.12
070	Alberni	1,255	1.23	*	231	209.55	1.10		0.96	–	1.25
071	Courtenay	2,026	1.05	*	432	395.02	1.09		0.99	–	1.20
072/084	Campbell River/V.I. West	1,182	1.11	*	229	216.38	1.06		0.93	–	1.20
075	Mission	1,145	1.13	*	252	207.07	1.22	*	1.07	–	1.38
076	Agassiz–Harrison	278	1.12		63	50.65	1.24		0.96	–	1.59
077	Summerland	707	1.01		155	147.41	1.05		0.89	–	1.23
078	Enderby	313	1.03		65	63.05	1.03		0.80	–	1.31
080	Kitimat	234	1.05		52	44.18	1.18		0.88	–	1.54
081	Fort Nelson	96	1.30	*	16	14.18	1.13		0.64	–	1.83
083	Central Coast	54	1.43	*	13	7.63	1.70		0.91	–	2.91
085	Vancouver Island North	296	1.22	*	63	47.83	1.32	*	1.01	–	1.69
087/094	Stikine/Telegraph Creek	33	0.71	*	16	9.47	1.69		0.97	–	2.74
088	Terrace	501	1.16	*	120	85.92	1.40	*	1.16	–	1.67
092	Nishga	47	1.28		11	7.39	1.49		0.74	–	2.66
161	Vancouver City Centre	3,692	1.18	*	672	646.98	1.04		0.96	–	1.12
162	Vancouver Downtown E. Side	3,038	1.51	*	592	415.66	1.42	*	1.31	–	1.54
163	Vancouver North East	2,650	0.88	*	584	618.98	0.94		0.87	–	1.02
164	Vancouver West Side	4,133	0.86	*	829	1,006.24	0.82	*	0.77	–	0.88
165	Vancouver Midtown	2,749	1.03		473	549.88	0.86	*	0.78	–	0.94
166	Vancouver South	4,140	0.90	*	817	951.39	0.86	*	0.80	–	0.92
039	**VANCOUVER TOTAL**	**20,560**	**1.02**	*	**3,973**	**4,189.13**	**0.95**	*	**0.92**	–	**0.98**
	N.S	76	–		1	–	–		–		–
	PROVINCIAL TOTAL	**134,493**	–		**27,794**	–	–		–		–

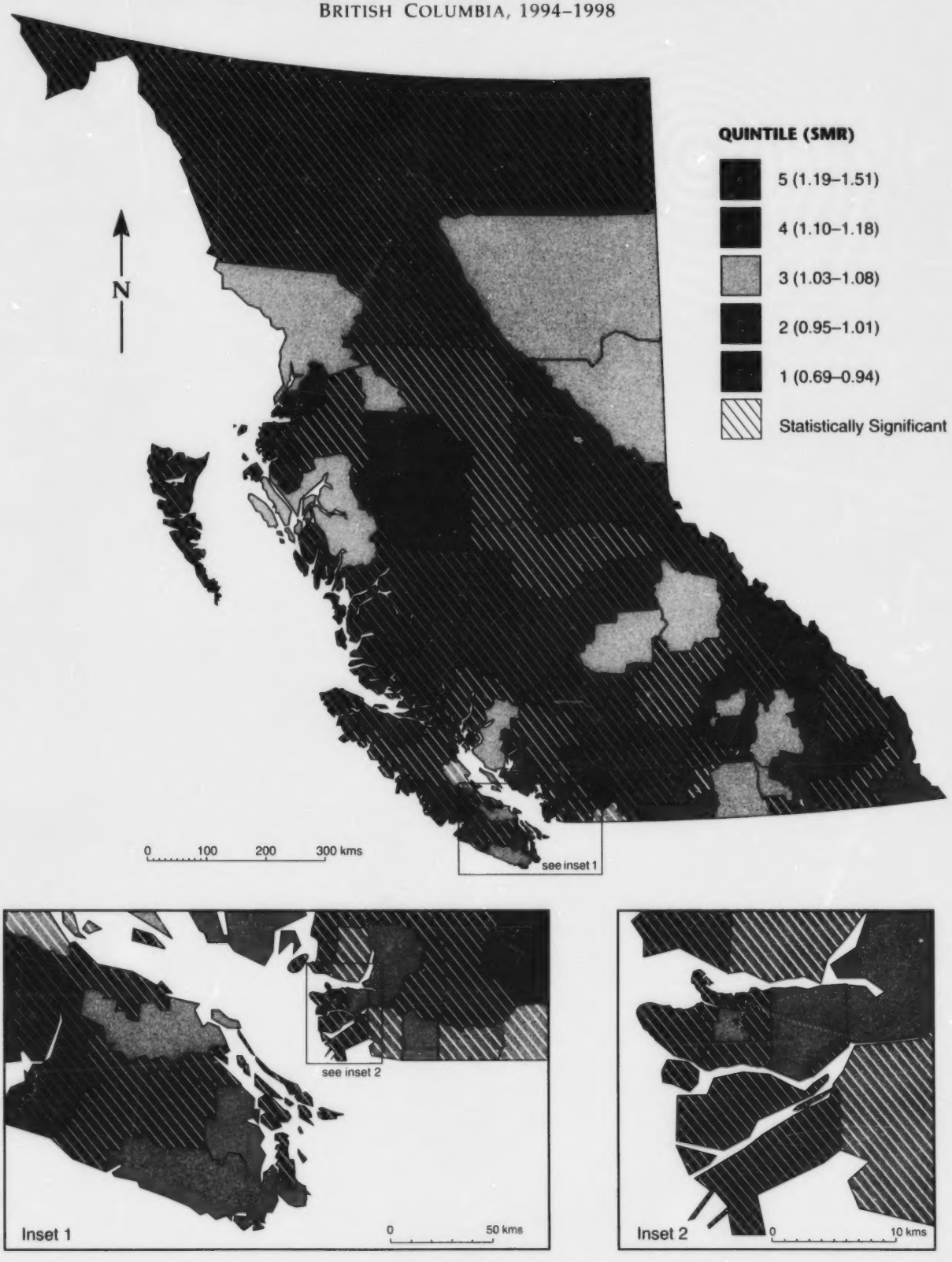
Note: SMR – Standardized Mortality Ratio. *Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed). LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not Stated. Non-residents and gender unknown are excluded.

STANDARDIZED MORTALITY RATIO – ALL CAUSES OF DEATH

Local Health Area		1994–1998 Observed Deaths	SMR	(p)	1999 Observed Deaths	Expected Deaths	SMR	(p)	95% Confidence Interval Lower		Upper
001	Fernie	367	0.95		71	78.25	0.91		0.71	–	1.14
002	Cranbrook	820	1.10	*	165	152.01	1.09		0.93	–	1.26
003	Kimberley	364	0.94		88	80.45	1.09		0.88	–	1.35
004	Windermere	171	0.69	*	58	50.37	1.15		0.87	–	1.49
005	Creston	633	0.90	*	138	146.73	0.94		0.79	–	1.11
006/007	Kootenay Lake/Nelson	1,040	1.01		209	214.09	0.98		0.85	–	1.12
009	Castlegar	530	1.08		97	102.13	0.95		0.77	–	1.16
010	Arrow Lakes	248	1.07		50	48.54	1.03		0.76	–	1.36
011	Trail	1,107	1.17	*	178	197.22	0.90		0.77	–	1.05
012/013	Grand Forks/Kettle Valley	577	1.04		100	114.59	0.87		0.71	–	1.06
014	Southern Okanagan	1,090	0.96		241	237.28	1.02		0.89	–	1.15
015	Penticton	2,179	0.95	*	448	483.32	0.93		0.84	–	1.02
016	Keremeos	250	1.01		45	51.48	0.87		0.64	–	1.17
017	Princeton	232	1.19	*	53	40.14	1.32		0.99	–	1.73
018	Golden	185	1.10		30	34.12	0.88		0.59	–	1.26
019	Revelstoke	309	1.30	*	62	48.49	1.28		0.98	–	1.64
020	Salmon Arm	1,297	0.96		274	279.76	0.98		0.87	–	1.10
021	Armstrong–Spallumcheen	374	1.04		74	74.70	0.99		0.78	–	1.24
022	Vernon	2,426	1.01		532	501.00	1.06		0.97	–	1.16
023	Central Okanagan	5,314	0.86	*	1,230	1,286.32	0.96		0.90	–	1.01
024	Kamloops	3,288	1.11	*	692	607.39	1.14	*	1.06	–	1.23
025	100 Mile House	475	1.07		114	89.59	1.27	*	1.05	–	1.53
026	North Thompson	115	1.08		24	21.35	1.12		0.72	–	1.67
027	Cariboo–Chilcotin	735	1.26	*	141	117.00	1.21	*	1.01	–	1.42
028	Quesnel	725	1.15	*	136	128.30	1.06		0.89	–	1.25
029	Lillooet	165	1.26	*	37	26.75	1.38		0.97	–	1.91
030	South Cariboo	301	1.23	*	45	50.21	0.90		0.65	–	1.20
031	Merritt	405	1.26	*	82	65.53	1.25		1.00	–	1.55
032	Hope	447	1.35	*	79	68.40	1.15		0.91	–	1.44
033	Chilliwack	2,788	1.06	*	602	546.94	1.10	*	1.01	–	1.19
034	Abbotsford	3,823	0.95	*	806	837.77	0.96		0.90	–	1.03
035	Langley	3,354	1.00		725	687.93	1.05		0.98	–	1.13
036	Surrey	9,843	0.95	*	2,100	2,135.62	0.98		0.94	–	1.03
037	Delta	2,576	0.93	*	531	568.78	0.93		0.86	–	1.02
038	Richmond	3,787	0.81	*	811	956.86	0.85	*	0.79	–	0.91
040	New Westminster	2,485	1.13	*	520	457.58	1.14	*	1.04	–	1.24
041	Burnaby	6,799	0.99		1,290	1,423.18	0.91	*	0.86	–	0.96
042	Maple Ridge	2,201	1.10	*	452	407.52	1.11	*	1.01	–	1.22
043	Coquitlam	4,094	1.00		875	830.84	1.05		0.98	–	1.13
044	North Vancouver	3,820	0.96	*	801	813.23	0.98		0.92	–	1.06
045	West Vancouver–Bowen Is.	2,399	0.90	*	416	562.87	0.74	*	0.67	–	0.81
046	Sunshine Coast	1,080	1.00		235	223.43	1.05		0.92	–	1.20
047	Powell River	830	1.03		163	167.20	0.97		0.83	–	1.14
048	Howe Sound	522	1.12	*	113	92.29	1.22	*	1.01	–	1.47
049	Bella Coola Valley	89	1.34	*	19	13.42	1.42		0.85	–	2.21
050	Queen Charlotte	140	1.33	*	30	21.05	1.43		0.96	–	2.03
051	Snow Country	19	1.07		3	3.61	0.83		0.17	–	2.43
052	Prince Rupert	472	1.25	*	90	75.56	1.19		0.96	–	1.46
053	Upper Skeena	113	1.08		22	20.87	1.05		0.66	–	1.60
054	Smithers	336	0.99		81	67.77	1.20		0.95	–	1.49
055/093	Burns Lake/Eutsuk	215	1.15		50	38.06	1.31		0.98	–	1.73
056	Nechako	425	1.18	*	84	71.94	1.17		0.93	–	1.45
057	Prince George	2,212	1.19	*	472	370.71	1.27	*	1.16	–	1.39
059	Peace River South	710	1.06		144	135.95	1.06		0.89	–	1.25
060	Peace River North	559	1.04		107	107.02	1.00		0.82	–	1.21
061	Greater Victoria	11,218	1.01		2,316	2,344.29	0.99		0.95	–	1.03
062	Sooke	1,390	1.04		281	271.52	1.03		0.92	–	1.16
063	Saanich	2,566	0.84	*	591	637.92	0.93		0.85	–	1.00
064	Gulf Islands	625	0.84	*	136	154.96	0.88		0.74	–	1.04
065	Cowichan	1,814	0.97		388	384.96	1.01		0.91	–	1.11
066	Lake Cowichan	154	0.84	*	36	37.51	0.96		0.67	–	1.33
067	Ladysmith	819	1.16	*	182	146.70	1.24	*	1.07	–	1.43
068	Nanaimo	3,362	1.03		717	673.81	1.06		0.99	–	1.14
069	Qualicum	1,882	0.94	*	420	414.07	1.01		0.92	–	1.12
070	Alberni	1,255	1.23	*	231	209.55	1.10		0.96	–	1.25
071	Courtenay	2,026	1.05	*	432	395.02	1.09		0.99	–	1.20
072/084	Campbell River/V.I. West	1,182	1.11	*	229	216.38	1.06		0.93	–	1.20
075	Mission	1,145	1.13	*	252	207.07	1.22	*	1.07	–	1.38
076	Agassiz–Harrison	278	1.12		63	50.65	1.24		0.96	–	1.59
077	Summerland	707	1.01		155	147.41	1.05		0.89	–	1.23
078	Enderby	313	1.03		65	63.05	1.03		0.80	–	1.31
080	Kitimat	234	1.05		52	44.18	1.18		0.88	–	1.54
081	Fort Nelson	96	1.30	*	16	14.18	1.13		0.64	–	1.83
083	Central Coast	54	1.43	*	13	7.63	1.70		0.91	–	2.91
085	Vancouver Island North	296	1.22	*	63	47.83	1.32	*	1.01	–	1.69
087/094	Stikine/Telegraph Creek	33	0.71	*	16	9.47	1.69		0.97	–	2.74
088	Terrace	501	1.16	*	120	85.92	1.40	*	1.16	–	1.67
092	Nishga	47	1.28		11	7.39	1.49		0.74	–	2.66
161	Vancouver City Centre	3,692	1.18	*	672	646.98	1.04		0.96	–	1.12
162	Vancouver Downtown E. Side	3,038	1.51	*	592	415.66	1.42	*	1.31	–	1.54
163	Vancouver North East	2,650	0.88	*	584	618.98	0.94		0.87	–	1.02
164	Vancouver West Side	4,133	0.86	*	829	1,006.24	0.82	*	0.77	–	0.88
165	Vancouver Midtown	2,749	1.03		473	549.88	0.86	*	0.78	–	0.94
166	Vancouver South	4,140	0.90	*	817	951.39	0.86	*	0.80	–	0.92
039	**VANCOUVER TOTAL**	**20,560**	**1.02**	*	**3,973**	**4,189.13**	**0.95**	*	**0.92**	–	**0.98**
	N.S	76	–		1	–	–		–		–
	PROVINCIAL TOTAL	**134,493**	–		**27,794**	–	–		–		–

Note: SMR – Standardized Mortality Ratio. *Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed). LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not Stated. Non-residents and gender unknown are excluded.

FIGURE 18
ALL CAUSES OF DEATH BY LOCAL HEALTH AREA
BRITISH COLUMBIA, 1994–1998



Note: SMR – Standardized Mortality Ratio. Refer to Figure 1 to clarify geographical location of Local Health Areas.

HIGHLIGHTS TO TABLE 33/FIGURE 18

- There were 27,794 deaths in the province in 1999, and a total of 134,493 deaths in the 1994–1998 period from all causes of death.
- Thirteen Local Health Areas (LHAs) had Standardized Mortality Ratios (SMR) for all causes of death which were statistically significant and high in 1999. The five highest 1999 SMR values (with number of 1999 deaths in parentheses, and 1994–1998 SMR values) were:

162	Vancouver Downtown E. Side	1.42	(592)	1.51
088	Terrace	1.40	(120)	1.16
085	Vancouver Island North	1.32	(63)	1.22
057	Prince George	1.27	(472)	1.19
025	100 Mile House	1.27	(114)	1.07

- Six LHAs had low SMR values for all causes that were statistically significant based on five or more deaths in 1999. These 1999 SMR values (with number of 1999 deaths in parentheses, and 1994–1998 SMR values) were:

045	West Vancouver–Bowen Is.	0.74	(416)	0.90
164	Vancouver West Side	0.82	(829)	0.86
038	Richmond	0.85	(811)	0.81
166	Vancouver South	0.86	(817)	0.90
165	Vancouver Midtown	0.86	(473)	1.03
041	Burnaby	0.91	(1,290)	0.99

- SMRs for specific causes of death for health regions and local health areas, 1995–1999, are presented in Appendix 3.

TABLE 34

POTENTIAL YEARS OF LIFE LOST AND AGE STANDARDIZED MORTALITY RATES BY SELECTED CAUSES OF DEATH

BRITISH COLUMBIA, 1999

Cause of Death	ICD9 Code(s)	PYLL (Age Under 75 Years)					Mortality (All Ages)		
		No. of Deaths	Total PYLL	Percent of PYLL	Average PYLL	PYLLSR	No. of Deaths	Percent of Deaths	ASMR
Infectious/parasitic diseases	**001–139**	**275**	**6,686**	**3.7**	**25.0**	**1.73**	**446**	**1.6**	**0.96**
– AIDS/HIV infection	042–044	100	3,275	1.8	32.8	0.81	100	0.4	0.23
Cancers (malignant neoplasms)	**140–208**	**4,206**	**53,605**	**29.0**	**12.7**	**12.81**	**7,570**	**27.2**	**16.28**
– Lung	162	1,223	13,568	7.3	11.1	3.21	1,997	7.2	4.36
– Female breast	174	371	5,968	3.2	16.1	2.77	575	2.1	2.29
– Colorectal	153–154	333	3,833	2.1	11.5	0.93	684	2.5	1.46
Endocrine, nutritional, metabolic dis.	**240–279**	**331**	**4,243**	**2.3**	**12.8**	**1.06**	**802**	**2.9**	**1.68**
– Diabetes	250	245	2,793	1.5	11.4	0.69	601	2.2	1.26
Diseases of circulatory system	**390–459**	**2,673**	**28,448**	**15.4**	**10.6**	**6.87**	**9,975**	**35.9**	**20.18**
– Coronary heart disease	410–414, 429.2	1,501	15,138	8.2	10.1	3.62	4,934	17.8	10.08
– Cerebrovascular/stroke	430–434, 436–438	483	5,148	2.8	10.7	1.25	2,273	8.2	4.54
Diseases of respiratory system	**460–519**	**724**	**7,134**	**3.9**	**9.9**	**1.77**	**3,125**	**11.2**	**6.28**
– Pneumonia/influenza	480–487	245	3,012	1.6	12.3	0.73	1,454	5.2	2.86
– Chronic lung disease	491–492, 496	339	2,418	1.3	7.1	0.61	1,198	4.3	2.46
Diseases of digestive system	**520–579**	**441**	**6,257**	**3.4**	**14.2**	**1.47**	**974**	**3.5**	**2.03**
– Chronic liver disease/cirrhosis	571	197	3,123	1.7	15.9	0.72	256	0.9	0.56
Congenital anomalies	**740–759**	**76**	**3,962**	**2.1**	**52.1**	**1.26**	**92**	**0.3**	**0.25**
Perinatal conditions	**760–779**	**79**	**5,861**	**3.2**	**74.2**	**2.02**	**79**	**0.3**	**0.26**
External causes	**E800–E999**	**1,375**	**45,622**	**24.7**	**33.2**	**12.13**	**1,780**	**6.4**	**4.11**
– Motor vehicle traffic accident	E810–E819	306	11,871	6.4	38.8	3.26	346	1.2	0.85
– Suicide	E950–E959	389	12,188	6.6	31.3	3.17	421	1.5	0.99
Other Causes		1,037	23,017	12.4	22.2	6.14	2,951	10.6	6.12
All Causes	**001–799, E800–E999**	**11,217**	**185,033**	**100.0**	**16.5**	**47.25**	**27,794**	**100.0**	**58.14**

Note: PYLL – Potential Years of Life Lost, denotes the total number of years of life lost from an established life expectancy (75 years).
PYLLSR – PYLL Standardized Rate per 1,000 standard population (Canada 1991 Census).
ASMR – Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census).
Reports before 1998 used a different standard population, therefore ASMRs and PYLLSRs should not be compared to pre-1998 reports.
Cause of death categories may differ from other tables.
Total percentage may not add up to 100 due to rounding.
Non-residents and gender unknown are excluded.

TABLE 34

POTENTIAL YEARS OF LIFE LOST AND AGE STANDARDIZED MORTALITY RATES BY SELECTED CAUSES OF DEATH

BRITISH COLUMBIA, 1999

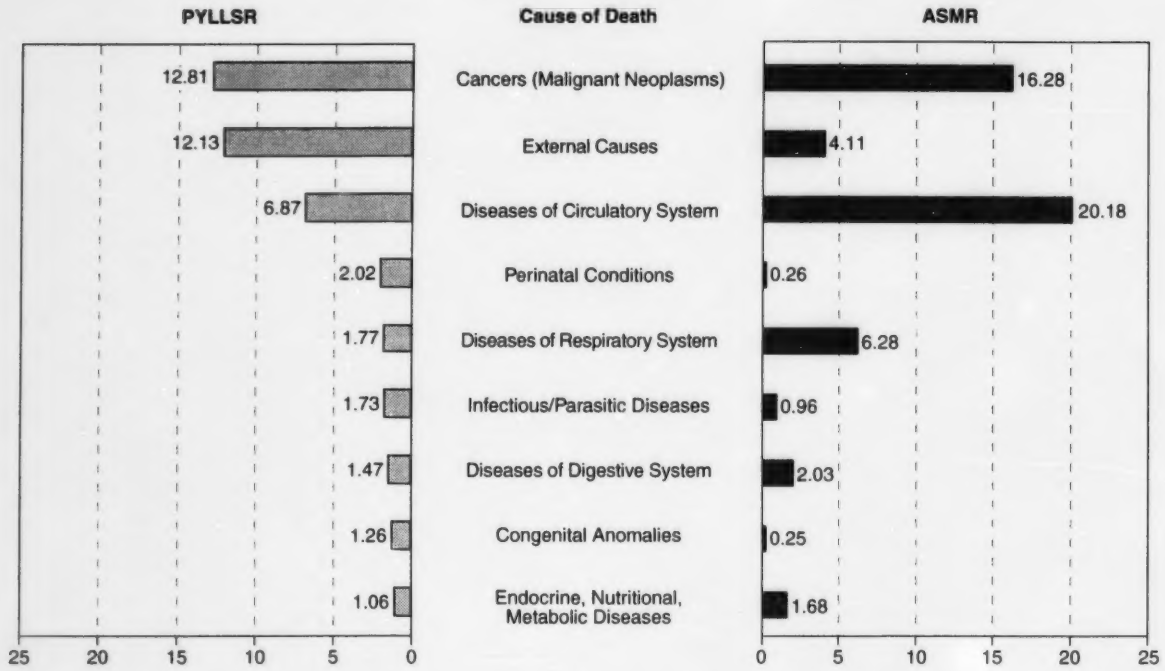
Cause of Death	ICD9 Code(s)	PYLL (Age Under 75 Years)					Mortality (All Ages)		
		No. of Deaths	Total PYLL	Percent of PYLL	Average PYLL	PYLLSR	No. of Deaths	Percent of Deaths	ASMR
Infectious/parasitic diseases	001–139	275	6,886	3.7	25.0	1.73	446	1.6	0.96
– AIDS/HIV infection	042–044	100	3,275	1.8	32.8	0.81	100	0.4	0.23
Cancers (malignant neoplasms)	140–208	4,206	53,605	29.0	12.7	12.81	7,570	27.2	16.28
– Lung	162	1,223	13,568	7.3	11.1	3.21	1,997	7.2	4.36
– Female breast	174	371	5,968	3.2	16.1	2.77	575	2.1	2.29
– Colorectal	153–154	333	3,833	2.1	11.5	0.93	684	2.5	1.46
Endocrine, nutritional, metabolic dis.	240–279	331	4,243	2.3	12.8	1.06	802	2.9	1.68
– Diabetes	250	245	2,793	1.5	11.4	0.69	601	2.2	1.26
Diseases of circulatory system	390–459	2,673	28,448	15.4	10.6	6.87	9,975	35.9	20.18
– Coronary heart disease	410–414, 429.2	1,501	15,138	8.2	10.1	3.62	4,934	17.8	10.08
– Cerebrovascular/stroke	430–434, 436–438	483	5,148	2.8	10.7	1.25	2,273	8.2	4.54
Diseases of respiratory system	460–519	724	7,134	3.9	9.9	1.77	3,125	11.2	6.28
– Pneumonia/influenza	480–487	245	3,012	1.6	12.3	0.73	1,454	5.2	2.86
– Chronic lung disease	491–492, 496	339	2,418	1.3	7.1	0.61	1,198	4.3	2.46
Diseases of digestive system	520–579	441	6,257	3.4	14.2	1.47	974	3.5	2.03
– Chronic liver disease/cirrhosis	571	197	3,123	1.7	15.9	0.72	256	0.9	0.56
Congenital anomalies	740–759	76	3,962	2.1	52.1	1.26	92	0.3	0.25
Perinatal conditions	760–779	79	5,861	3.2	74.2	2.02	79	0.3	0.26
External causes	E800–E999	1,375	45,622	24.7	33.2	12.13	1,780	6.4	4.11
– Motor vehicle traffic accident	E810–E819	306	11,871	6.4	38.8	3.26	346	1.2	0.85
– Suicide	E950–E959	389	12,188	6.6	31.3	3.17	421	1.5	0.99
Other Causes		1,037	23,017	12.4	22.2	6.14	2,951	10.6	6.12
All Causes	**001–799, E800–E999**	**11,217**	**185,033**	**100.0**	**16.5**	**47.25**	**27,794**	**100.0**	**58.14**

Note: PYLL – Potential Years of Life Lost, denotes the total number of years of life lost from an established life expectancy (75 years).
PYLLSR – PYLL Standardized Rate per 1,000 standard population (Canada 1991 Census).
ASMR – Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census).
Reports before 1998 used a different standard population, therefore ASMRs and PYLLSRs should not be compared to pre-1998 reports.
Cause of death categories may differ from other tables.
Total percentage may not add up to 100 due to rounding.
Non-residents and gender unknown are excluded.

FIGURE 19

POTENTIAL YEARS OF LIFE LOST AND AGE STANDARDIZED MORTALITY RATES BY SELECTED CAUSES OF DEATH

BRITISH COLUMBIA, 1999



Note: PYLLSR – Potential Years of Life Lost Standardized Rate (age under 75 years) per 1,000 standard population.
ASMR – Age Standardized Mortality Rate per 10,000 standard population.

HIGHLIGHTS TO TABLE 34/FIGURE 19

- Out of the 27,794 deaths in B.C. in 1999, 11,217 (40.4%) were under age 75. The proportion of 'premature' deaths varied considerably by cause of death:
  - 1,375 deaths from accidents and violence were premature (77.2%).
  - 4,206 cancer deaths were premature (55.6%).
  - 2,673 circulatory system deaths were premature (26.8%).
  - 724 respiratory system deaths were premature (23.2%).
- Potential Years of Life Lost (PYLL) is used as an alternative measure of mortality to reflect the impact of deaths that occur at younger ages. For every death under the age of 75, there are potential years of life lost. A comparison of deaths from cancers and external causes illustrates the value of PYLL as an indicator. Cancers were responsible for 4,206 deaths and 53,605 potential years of life lost in 1999. In contrast, the 1,375 deaths from external causes resulted in almost the same number of potential years of life lost (45,622), since a larger proportion of these deaths were in younger age groups.
- In 1999, an average of 16.5 years of life were lost per death under 75 years of age. The causes of death shown in the table that had the highest average Potential Years of Life Lost (PYLL) were:
  - 74.2 years lost per death due to deaths from perinatal conditions
  - 52.1 years lost per death due to deaths from congenital anomalies
  - 33.2 years lost per death due to external causes, particularly motor vehicle traffic accidents (38.8) and suicide (31.3)
  - 25.0 years lost per death due to infectious and parasitic diseases, primarily AIDS/HIV infection (32.8).
- The Potential Years of Life Lost Standardized Rate (PYLLSR) for deaths from all causes was 47.25 potential years of life lost per 1,000 standard population in 1999.

TABLE 35
POTENTIAL YEARS OF LIFE LOST BY AGE GROUP AND MAJOR CAUSES OF DEATH (AGE UNDER 75 YEARS)
BRITISH COLUMBIA, 1999

Causes of Death	ICD9 Code(s)	Total				Male				Female			
		Deaths	PYLL	PYLL %	PYLLSR	Deaths	PYLL	PYLL %	PYLLSR	Deaths	PYLL	PYLL %	PYLLSR
Under 15 Years Old													
Perinatal conditions	760–779	78	5,809	32.4	2.01	50	3,723	35.6	2.51	28	2,086	28.0	1.48
Congenital anomalies	740–759	40	2,927	16.3	0.98	19	1,377	13.2	0.89	21	1,550	20.8	1.09
Motor vehicle traffic accidents	E810–E819	18	1,181	6.6	0.34	15	975	9.3	0.54	3	207	2.8	0.13
Cancers (malignant neoplasms)	140–208	17	1,157	6.5	0.34	9	614	5.9	0.35	8	544	7.3	0.33
Infectious/parasitic diseases	001–139	11	791	4.4	0.26	6	438	4.2	0.28	5	354	4.7	0.23
Sudden infant death syndrome (SIDS)	798.0	10	745	4.2	0.26	8	596	5.7	0.40	2	149	2.0	0.11
Other causes		76	5,311	29.6	1.66	40	2,748	26.2	1.63	36	2,564	34.4	1.69
All causes		250	17,921	100.0	5.85	147	10,469	100.0	6.61	103	7,452	100.0	5.05
15–24 Years Old													
Motor vehicle traffic accidents	E810–E819	95	5,263	30.0	1.47	66	3,645	30.1	2.00	29	1,618	29.7	0.92
Suicide	E950–E959	43	2,328	13.3	0.67	35	1,893	15.7	1.07	8	435	8.0	0.25
Accidental poisoning	E850–E869	23	1,233	7.0	0.36	19	1,018	8.4	0.58	4	215	4.0	0.13
Cancers (malignant neoplasms)	140–208	23	1,258	7.2	0.36	13	713	5.9	0.40	10	545	10.0	0.32
Homicide	E960–E969	12	650	3.7	0.19	8	425	3.5	0.24	4	225	4.1	0.13
Nervous system diseases	320–389	9	483	2.8	0.14	4	215	1.8	0.12	5	268	4.9	0.16
Other causes		116	6,320	36.0	1.80	77	4,183	34.6	2.34	39	2,138	39.3	1.23
All causes		321	17,533	100.0	4.98	222	12,090	100.0	6.76	99	5,443	100.0	3.13
25–44 Years Old													
Cancers (malignant neoplasms)	140–208	272	9,735	18.9	2.47	127	4,608	13.1	2.38	145	5,128	31.6	2.57
Accidental poisoning	E850–E869	184	7,065	13.7	1.91	137	5,278	15.0	2.85	47	1,788	11.0	0.96
Suicide	E950–E959	166	6,440	12.5	1.77	142	5,505	15.6	3.03	24	935	5.8	0.51
Motor vehicle traffic accidents	E810–E819	100	3,975	7.7	1.13	74	2,960	8.4	1.68	26	1,015	6.3	0.57
AIDS/HIV infection	042–044	65	2,418	4.7	0.63	55	2,073	5.9	1.09	10	345	2.1	0.16
Coronary heart disease	410–414, 429.2	53	1,828	3.5	0.45	38	1,310	3.7	0.64	15	518	3.2	0.25
Other causes		529	20,033	38.9	5.43	356	13,525	38.4	7.34	173	6,508	40.1	3.50
All Causes		1,369	51,493	100.0	13.79	929	35,258	100.0	19.02	440	16,235	100.0	8.53
45–74 Years Old													
Cancers (malignant neoplasms)	140–208	3,894	41,455	42.3	9.64	2,171	22,233	36.1	10.49	1,723	19,223	52.6	8.81
Coronary heart disease	410–414, 429.2	1,446	13,205	13.5	3.14	1,098	10,495	17.1	5.03	348	2,710	7.4	1.29
Cerebrovascular/ stroke	430–434, 436–438	453	3,973	4.0	0.94	264	2,245	3.6	1.09	189	1,728	4.7	0.80
Chronic lung disease	491–492, 496	335	2,263	2.3	0.56	198	1,335	2.2	0.68	137	928	2.5	0.45
Diabetes	250	227	2,053	2.1	0.49	145	1,443	2.3	0.69	82	610	1.7	0.29
Pneumonia/influenza	480–487	211	1,953	2.0	0.45	128	1,220	2.0	0.57	83	733	2.0	0.34
Other causes		2,711	33,188	33.8	7.40	1,738	22,560	36.7	10.04	973	10,628	29.1	4.78
All causes		9,277	98,088	100.0	22.63	5,742	61,530	100.0	28.59	3,535	36,558	100.0	16.77

Note: PYLL – Potential Years of Life Lost, denotes the total number of years of life lost from an established life expectancy (75 years). PYLLSR – PYLL Standardized Rate per 1,000 standard population (Canada 1991 Census). Reports before 1998 used a different standard population, therefore PYLLSRs should not be compared to pre-1998 reports. Cause of death categories may differ from other tables. Total percentage may not add up to 100 due to rounding. Non-residents and gender unknown are excluded.

TABLE 35
POTENTIAL YEARS OF LIFE LOST BY AGE GROUP AND MAJOR CAUSES OF DEATH (AGE UNDER 75 YEARS)
BRITISH COLUMBIA, 1999

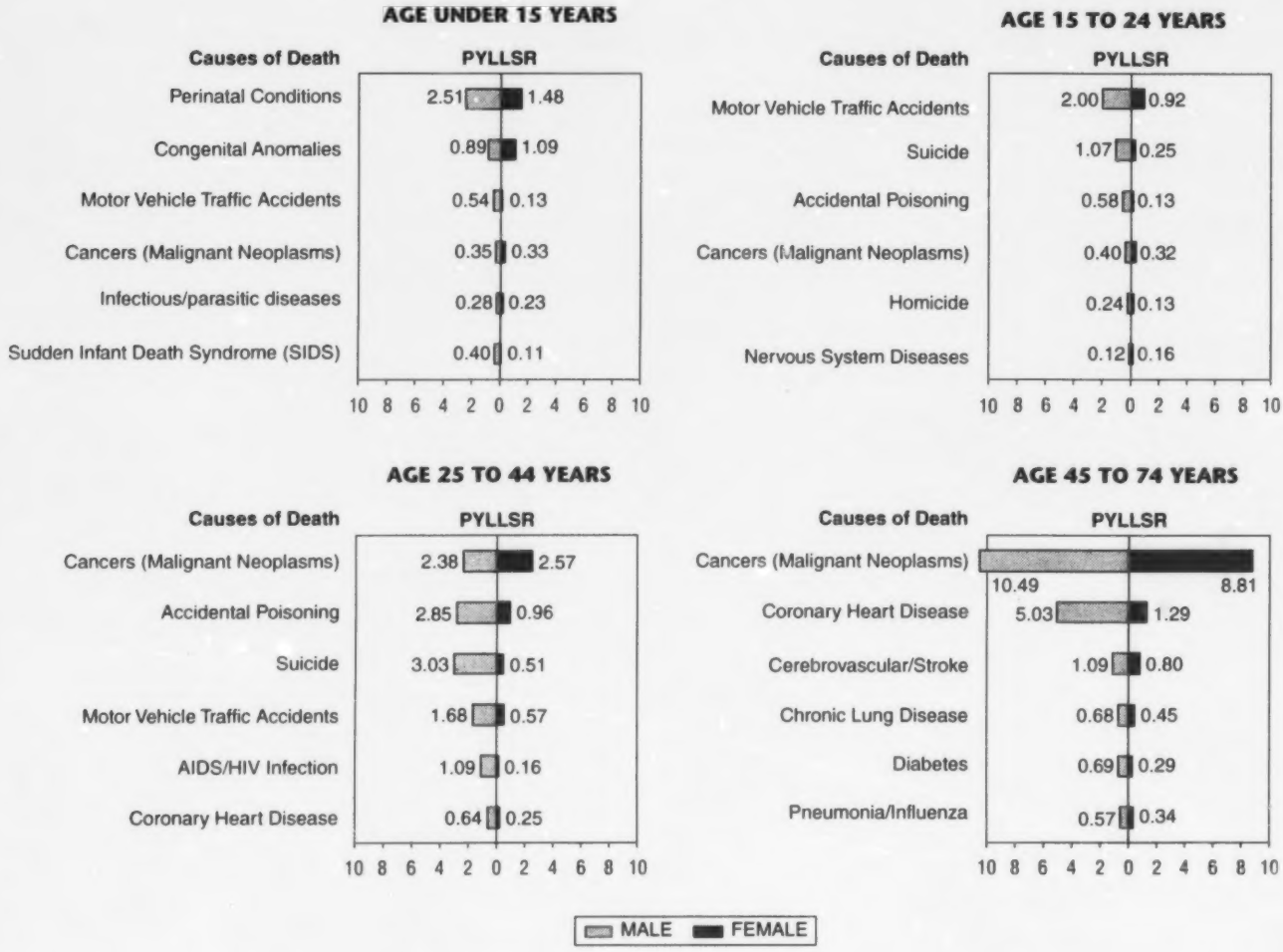
Causes of Death	ICD9 Code(s)	Total				Male				Female			
		Deaths	PYLL	PYLL %	PYLLSR	Deaths	PYLL	PYLL %	PYLLSR	Deaths	PYLL	PYLL %	PYLLSR
Under 15 Years Old													
Perinatal conditions	760–779	78	5,809	32.4	2.01	50	3,723	35.6	2.51	28	2,086	28.0	1.48
Congenital anomalies	740–759	40	2,927	16.3	0.98	19	1,377	13.2	0.89	21	1,550	20.8	1.09
Motor vehicle traffic accidents	E810–E819	18	1,181	6.6	0.34	15	975	9.3	0.54	3	207	2.8	0.13
Cancers (malignant neoplasms)	140–208	17	1,157	6.5	0.34	9	614	5.9	0.35	8	544	7.3	0.33
Infectious/parasitic diseases	001–139	11	791	4.4	0.26	6	438	4.2	0.28	5	354	4.7	0.23
Sudden infant death syndrome (SIDS)	798.0	10	745	4.2	0.26	8	596	5.7	0.40	2	149	2.0	0.11
Other causes		76	5,311	29.6	1.66	40	2,748	26.2	1.63	36	2,564	34.4	1.69
All causes		250	17,921	100.0	5.85	147	10,469	100.0	6.61	103	7,452	100.0	5.05
15–24 Years Old													
Motor vehicle traffic accidents	E810–E819	95	5,263	30.0	1.47	66	3,645	30.1	2.00	29	1,618	29.7	0.92
Suicide	E950–E959	43	2,328	13.3	0.67	35	1,893	15.7	1.07	8	435	8.0	0.25
Accidental poisoning	E850–E869	23	1,233	7.0	0.36	19	1,018	8.4	0.58	4	215	4.0	0.13
Cancers (malignant neoplasms)	140–208	23	1,258	7.2	0.36	13	713	5.9	0.40	10	545	10.0	0.32
Homicide	E960–E969	12	650	3.7	0.19	8	425	3.5	0.24	4	225	4.1	0.13
Nervous system diseases	320–389	9	483	2.8	0.14	4	215	1.8	0.12	5	268	4.9	0.16
Other causes		116	6,320	36.0	1.80	77	4,183	34.6	2.34	39	2,138	39.3	1.23
All causes		321	17,533	100.0	4.98	222	12,090	100.0	6.76	99	5,443	100.0	3.13
25–44 Years Old													
Cancers (malignant neoplasms)	140–208	272	9,735	18.9	2.47	127	4,608	13.1	2.38	145	5,128	31.6	2.57
Accidental poisoning	E850–E869	184	7,065	13.7	1.91	137	5,278	15.0	2.85	47	1,788	11.0	0.96
Suicide	E950–E959	166	6,440	12.5	1.77	142	5,505	15.6	3.03	24	935	5.8	0.51
Motor vehicle traffic accidents	E810–E819	100	3,975	7.7	1.13	74	2,960	8.4	1.68	26	1,015	6.3	0.57
AIDS/HIV infection	042–044	65	2,418	4.7	0.63	55	2,073	5.9	1.09	10	345	2.1	0.16
Coronary heart disease	410–414, 429.2	53	1,828	3.5	0.45	38	1,310	3.7	0.64	15	518	3.2	0.25
Other causes		529	20,033	38.9	5.43	356	13,525	38.4	7.34	173	6,508	40.1	3.50
All Causes		1,369	51,493	100.0	13.79	929	35,258	100.0	19.02	440	16,235	100.0	8.53
45–74 Years Old													
Cancers (malignant neoplasms)	140–208	3,894	41,455	42.3	9.64	2,171	22,233	36.1	10.49	1,723	19,223	52.6	8.81
Coronary heart disease	410–414, 429.2	1,446	13,205	13.5	3.14	1,098	10,495	17.1	5.03	348	2,710	7.4	1.29
Cerebrovascular/ stroke	430–434, 436–438	453	3,973	4.0	0.94	264	2,245	3.6	1.09	189	1,728	4.7	0.80
Chronic lung disease	491–492, 496	335	2,263	2.3	0.56	198	1,335	2.2	0.68	137	928	2.5	0.45
Diabetes	250	227	2,053	2.1	0.49	145	1,443	2.3	0.69	82	610	1.7	0.29
Pneumonia/influenza	480–487	211	1,953	2.0	0.45	128	1,220	2.0	0.57	83	733	2.0	0.34
Other causes		2,711	33,188	33.8	7.40	1,738	22,560	36.7	10.04	973	10,628	29.1	4.78
All causes		9,277	98,088	100.0	22.63	5,742	61,530	100.0	28.59	3,535	36,558	100.0	16.77

Note: PYLL – Potential Years of Life Lost, denotes the total number of years of life lost from an established life expectancy (75 years). PYLLSR – PYLL Standardized Rate per 1,000 standard population (Canada 1991 Census). Reports before 1998 used a different standard population, therefore PYLLSRs should not be compared to pre-1998 reports. Cause of death categories may differ from other tables. Total percentage may not add up to 100 due to rounding. Non-residents and gender unknown are excluded.

FIGURE 20

POTENTIAL YEARS OF LIFE LOST STANDARDIZED RATES BY AGE GROUP AND GENDER MAJOR CAUSES OF DEATH (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 1999



Note: Causes of death are ordered by total deaths (Table 35).
PYLLSR–PYLL Standardized Rate per 1,000 population.

HIGHLIGHTS TO TABLE 35/FIGURE 20

- In 1999, there were 250 deaths in the under 15 years old age group, 147 young men and 103 young women. These deaths resulted in a total of 17,921 potential years of life lost (PYLL). Perinatal conditions and congenital anomalies accounted for 32.4% and 16.3% of PYLL, respectively. The Potential Years of Life Lost Standardized Rate (PYLLSR) in this age group was 5.85 years of life lost per 1,000 standard population in the age group.
- In the 15–24 age group, a total of 17,533 potential years of life were lost from the 321 deaths in 1999, resulting in a PYLLSR of 4.98 potential years of life lost per 1,000 standard population in this age group. Males accounted for 222 of these deaths and had a considerably higher PYLLSR (6.76) than females (3.13). Motor vehicle traffic accidents were a major cause of death in this age group, responsible for 95 deaths and 5,263 PYLL.
- In the 'prime of life' 25–44 age group, there were 1,369 deaths in 1999, producing a total of 51,493 potential years of life lost and a PYLL standardized rate of 13.79 PYLL per 1,000 standard population in this age group. Among the 929 male deaths, the highest PYLL standardized rates were for suicide (3.03), accidental poisoning (2.85) and cancers (2.38). For the 440 female deaths, the PYLLSR for cancers (2.57) was considerably higher than the rates for other causes of death shown in the table.
- In the 45–74 age group, the 9,277 deaths resulted in a total of 98,088 potential years of life lost in 1999, and a PYLLSR of 22.63 per 1,000 standard population in this age group. Cancers were the most important cause of death in this category; the 3,894 deaths from cancers were responsible for a total of 41,455 potential years of life lost, and a PYLLSR of 9.64.

M121

IMPORTANT NOTE CONCERNING THE FOLLOWING PAGES

THE PAGES WHICH FOLLOW HAVE BEEN FILMED TWICE IN ORDER TO OBTAIN THE BEST REPRODUCTIVE QUALITY

USERS SHOULD CONSULT ALL THE PAGES REPRODUCED ON THE FICHE IN ORDER TO OBTAIN A COMPLETE READING OF THE TEXT.

REMARQUE IMPORTANTE CONCERNANT LES PAGES QUI SUIVENT

LES PAGES SUIVANTES ONT ÉTÉ REPRODUITES EN DOUBLE AFIN D'AMÉLIORER LA QUALITÉ DE REPRODUCTION

LES UTILISATEURS DOIVENT CONSULTER TOUTES LES PAGES REPRODUITES SUR LA FICHE AFIN D'OBTENIR LA LECTURE DU TEXTE INTÉGRAL

micromedia
a division of IHS Canada

20 Victoria Street
Toronto, Ontario M5C 2N8
Tel.: (416) 362-5211
Toll Free: 1-800-387-2689
Fax: (416) 362-6161
Email: info@micromedia.on.ca

POTENTIAL YEARS OF LIFE LOST BY LOCAL HEALTH AREA
EXTERNAL CAUSES OF DEATH (AGE UNDER 75 YEARS)

Local Health Area		1994–1998 Observed Deaths	1994–1998 Observed PYLL	1994–1998 PYLL Index (p)		1999 Observed Deaths	1999 Observed PYLL	1999 Expected PYLL	1999 PYLL Index (p)		1999 95% Confidence Limit Lower		1999 95% Confidence Limit Upper
001	Fernie	28	1,102	0.83		3	118	199.12	0.59		0.00	–	1.29
002	Cranbrook	56	1,911	0.94		8	260	296.79	0.88		0.19	–	1.57
003	Kimberley	24	725	1.06		4	165	97.31	1.70		0.01	–	3.38
004	Windermere	18	687	1.01		2	30	108.02	0.28	+	0.00	–	0.67
005	Creston	33	990	1.18		5	203	124.71	1.62		0.04	–	3.21
006/007	Kootenay Lake/Nelson	104	3,759	1.69	*	18	715	326.30	2.19	*	1.07	–	3.32
009	Castlegar	27	948	0.89		8	275	154.14	1.78		0.43	–	3.14
010	Arrow Lakes	14	425	1.08		2	35	57.27	0.61		0.00	–	1.59
011	Trail	50	1,824	1.17		8	340	220.40	1.54		0.36	–	2.72
012/013	Grand Forks/Kettle Valley	34	1,087	1.16		7	278	137.45	2.02		0.43	–	3.61
014	Southern Okanagan	43	1,425	1.28		5	98	167.76	0.58		0.00	–	1.33
015	Penticton	79	2,258	0.83		21	598	391.01	1.53		0.79	–	2.26
016	Keremeos	19	713	2.40	*	2	75	43.99	1.70		0.00	–	4.54
017	Princeton	17	530	1.43		2	15	53.78	0.28	+	0.00	–	0.67
018	Golden	15	648	1.00		5	233	93.45	2.49		0.28	–	4.70
019	Revelstoke	26	885	1.20		5	138	101.08	1.36		0.07	–	2.65
020	Salmon Arm	93	3,216	1.48	*	9	253	337.96	0.75		0.20	–	1.29
021	Armstrong–Spallumcheen	16	550	0.77		6	350	107.93	3.24		0.65	–	5.84
022	Vernon	147	5,490	1.29	*	16	505	620.10	0.81		0.34	–	1.29
023	Central Okanagan	253	8,654	0.81	*	51	1,603	1,586.69	1.01		0.69	–	1.33
024	Kamloops	317	11,133	1.37	*	41	1,442	1,202.87	1.20		0.78	–	1.62
025	100 Mile House	69	2,427	2.07	*	5	158	180.00	0.87		0.07	–	1.68
026	North Thompson	12	480	1.13		7	228	61.99	3.67		0.60	–	6.74
027	Cariboo–Chilcotin	114	4,449	1.84	*	21	728	351.07	2.07	*	1.08	–	3.07
028	Quesnel	94	3,374	1.55	*	11	350	316.98	1.10		0.36	–	1.85
029	Lillooet	20	780	1.89		8	175	57.58	3.04		0.13	–	5.95
030	South Cariboo	33	1,163	1.98	*	3	128	84.64	1.51		0.00	–	3.35
031	Merritt	57	2,172	2.30	*	10	390	138.33	2.82		0.90	–	4.74
032	Hope	46	1,415	2.30	*	4	135	87.57	1.54		0.00	–	3.27
033	Chilliwack	181	6,583	1.27	*	32	910	756.23	1.20		0.72	–	1.68
034	Abbotsford	206	7,766	0.89		38	1,250	1,260.75	0.99		0.65	–	1.34
035	Langley	173	6,288	0.73	*	30	930	1,259.62	0.74		0.45	–	1.03
036	Surrey	621	22,872	0.84	*	120	4,122	3,943.56	1.05		0.84	–	1.25
037	Delta	122	4,555	0.56	*	9	313	1,156.23	0.27	*	0.07	–	0.47
038	Richmond	184	6,570	0.51	*	23	543	1,914.15	0.28	*	0.14	–	0.42
040	New Westminster	162	5,740	1.29	*	22	610	636.09	0.96		0.53	–	1.39
041	Burnaby	311	11,101	0.70	*	39	1,308	2,222.16	0.59	*	0.37	–	0.80
042	Maple Ridge	118	3,929	0.66	*	25	998	877.44	1.14		0.66	–	1.61
043	Coquitlam	246	8,845	0.58	*	34	1,220	2,226.87	0.55	*	0.34	–	0.75
044	North Vancouver	187	6,616	0.63	*	27	1,038	1,469.78	0.71	*	0.42	–	0.99
045	West Vancouver–Bowen Is.	61	1,803	0.54	*	11	368	484.92	0.76		0.25	–	1.27
046	Sunshine Coast	66	2,215	1.21		12	350	276.67	1.27		0.43	–	2.10
047	Powell River	55	1,740	1.14		3	53	221.41	0.24	+	0.00	–	0.58
048	Howe Sound	93	3,572	1.32	*	16	560	425.14	1.32		0.64	–	2.00
049	Bella Coola Valley	23	638	2.35	*	4	85	40.50	2.10		0.00	–	4.30
050	Queen Charlotte	24	790	1.54		6	130	72.82	1.79		0.12	–	3.45
051	Snow Country	6	275	3.08		–	–	9.71	–		–	–	–
052	Prince Rupert	60	2,095	1.24		10	290	227.54	1.27		0.41	–	2.14
053	Upper Skeena	21	753	1.47		3	143	74.83	1.90		0.00	–	4.16
054	Smithers	50	2,072	1.32		2	85	229.01	0.37	+	0.00	–	0.89
055/093	Burns Lake/Eutsuk	34	1,382	2.20	*	6	180	91.82	1.96		0.24	–	3.68
056	Nechako	71	2,823	1.85	*	10	365	221.14	1.65		0.49	–	2.81
057	Prince George	285	10,910	1.19	*	42	1,520	1,309.59	1.16		0.78	–	1.54
059	Peace River South	70	2,749	1.11		14	425	339.89	1.25		0.47	–	2.04
060	Peace River North	74	2,764	1.09		10	345	375.86	0.92		0.29	–	1.54
061	Greater Victoria	403	13,154	0.81	*	81	2,663	2,219.88	1.20		0.91	–	1.49
062	Sooke	88	2,995	0.70	*	15	473	621.24	0.76		0.35	–	1.17
063	Saanich	88	2,840	0.70	*	17	533	583.60	0.91		0.44	–	1.38
064	Gulf Islands	20	585	0.67	*	5	128	135.91	0.94		0.00	–	1.94
065	Cowichan	118	4,281	1.12		11	503	569.33	0.88		0.34	–	1.43
066	Lake Cowichan	12	420	0.84		2	95	73.18	1.30		0.00	–	3.11
067	Ladysmith	52	1,944	1.70	*	3	93	161.23	0.57		0.00	–	1.27
068	Nanaimo	210	7,112	1.02		40	1,230	1,023.74	1.20		0.79	–	1.61
069	Qualicum	92	3,192	1.32	*	11	387	371.56	1.04		0.33	–	1.75
070	Alberni	120	4,543	1.74	*	11	408	375.86	1.08		0.37	–	1.79
071	Courtenay	151	5,461	1.27	*	23	812	640.74	1.27		0.70	–	1.84
072/084	Campbell River/V.I. West	124	4,480	1.21		13	438	531.24	0.82		0.33	–	1.32
075	Mission	92	3,280	1.12		13	368	423.88	0.87		0.34	–	1.40
076	Agassiz–Harrison	30	1,240	1.91	*	3	113	98.68	1.14		0.00	–	2.46
077	Summerland	26	590	0.82		2	100	106.22	0.94		0.00	–	2.25
078	Enderby	29	993	1.86	*	9	298	82.61	3.60	*	1.10	–	6.11
080	Kitimat	22	900	0.81		6	285	156.27	1.82		0.31	–	3.33
081	Fort Nelson	23	928	1.57		1	48	84.89	0.56		0.00	–	1.66
083	Central Coast	9	393	2.37		2	75	24.63	3.04		0.00	–	8.12
085	Vancouver Island North	58	2,259	1.65	*	8	300	189.26	1.58		0.31	–	2.86
087/094	Stikine/Telegraph Creek	16	655	3.99	*	4	180	23.08	7.78		0.00	–	16.12
088	Terrace	76	2,790	1.38	*	9	248	286.33	0.86		0.25	–	1.48
092	Nishga	11	418	2.31		2	90	28.82	3.12		0.00	–	7.46
161	Vancouver City Centre	313	10,443	1.23	*	54	1,735	1,332.17	1.30		0.93	–	1.68
162	Vancouver Downtown E. Side	529	17,947	3.81	*	67	2,003	679.25	2.95	*	2.19	–	3.70
163	Vancouver North East	174	6,202	0.80	*	28	1,050	1,101.84	0.95		0.58	–	1.32
164	Vancouver West Side	149	5,353	0.52	*	28	910	1,472.64	0.62	*	0.37	–	0.87
165	Vancouver Midtown	218	7,509	1.00		29	928	1,037.14	0.89		0.54	–	1.25
166	Vancouver South	207	6,913	0.71	*	32	950	1,356.24	0.70	*	0.42	–	0.98
039	**VANCOUVER TOTAL**	**1,631**	**55,788**	**1.15**	*	**239**	**7,612**	**6,979.29**	**1.09**		**0.94**	–	**1.24**
	N.S.	26	–	–		–	–	–	–		–	–	–
	PROVINCIAL TOTAL	**8,889**	–	–		**1,375**	–	–	–		–	–	–

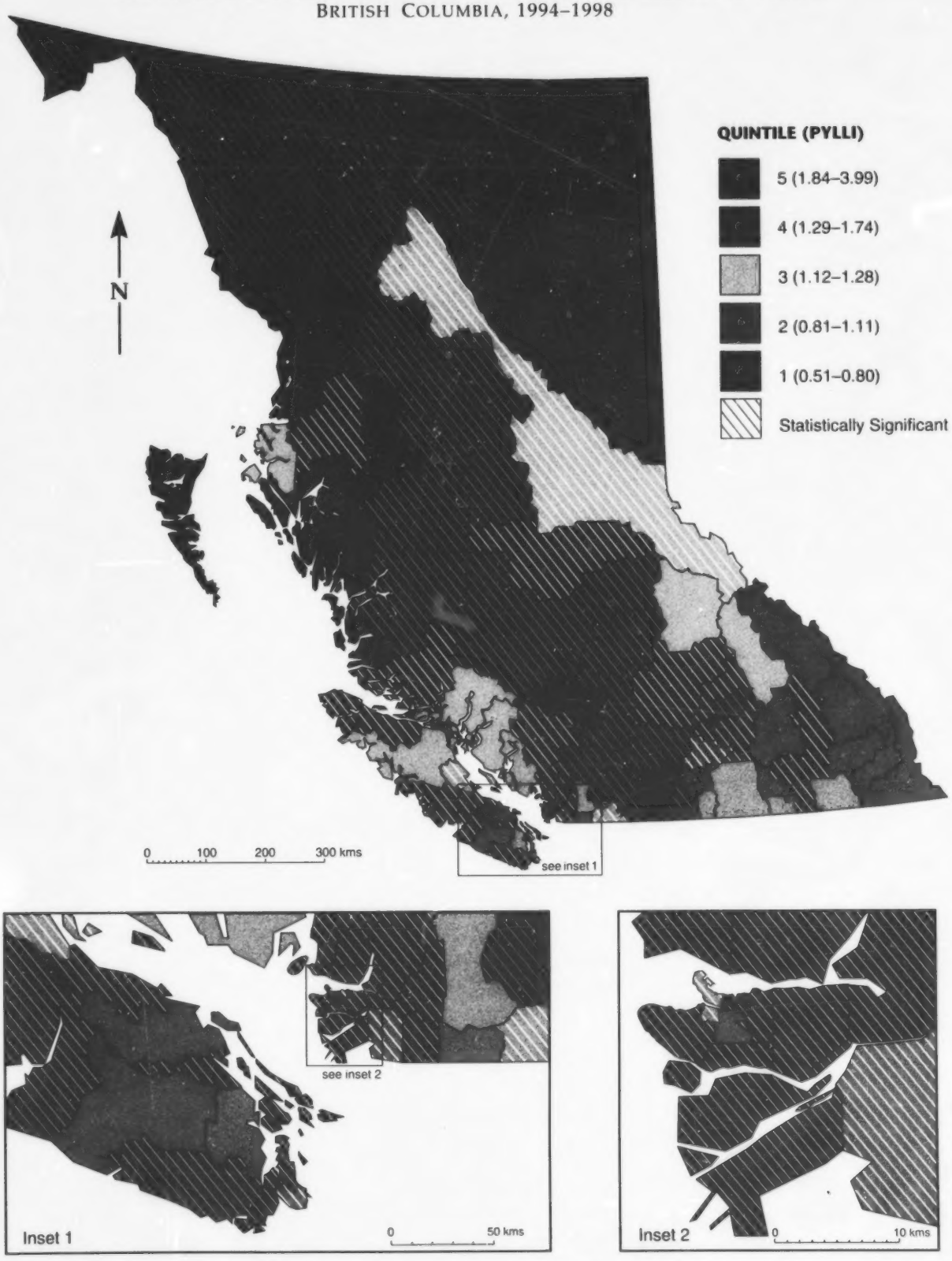
Note: * Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed).
+ Denotes significance based on less than five deaths. PYLL and PYLL Index: see glossary for more details. LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not Stated. Non-residents are excluded.

POTENTIAL YEARS OF LIFE LOST BY LOCAL HEALTH AREA
EXTERNAL CAUSES OF DEATH (AGE UNDER 75 YEARS)

Local Health Area		1994–1998 Observed Deaths	1994–1998 Observed PYLL	1994–1998 PYLL Index (p)		1999 Observed Deaths	1999 Observed PYLL	1999 Expected PYLL	1999 PYLL Index (p)		1999 95% Confidence Limit Lower		1999 95% Confidence Limit Upper
001	Fernie	28	1,102	0.83		3	118	199.12	0.59		0.00	–	1.29
002	Cranbrook	56	1,911	0.94		8	260	296.79	0.88		0.19	–	1.57
003	Kimberley	24	725	1.06		4	165	97.31	1.70		0.01	–	3.38
004	Windermere	18	687	1.01		2	30	108.02	0.28	+	0.00	–	0.67
005	Creston	33	990	1.18		5	203	124.71	1.62		0.04	–	3.21
006/007	Kootenay Lake/Nelson	104	3,759	1.69	*	18	715	326.30	2.19	*	1.07	–	3.32
009	Castlegar	27	948	0.89		8	275	154.14	1.78		0.43	–	3.14
010	Arrow Lakes	14	425	1.08		2	35	57.27	0.61		0.00	–	1.59
011	Trail	50	1,824	1.17		8	340	220.40	1.54		0.36	–	2.72
012/013	Grand Forks/Kettle Valley	34	1,087	1.16		7	278	137.45	2.02		0.43	–	3.61
014	Southern Okanagan	43	1,425	1.28		5	98	167.76	0.58		0.00	–	1.33
015	Penticton	79	2,258	0.83		21	598	391.01	1.53		0.79	–	2.26
016	Keremeos	19	713	2.40	*	2	75	43.99	1.70		0.00	–	4.54
017	Princeton	17	530	1.43		2	15	53.78	0.28	+	0.00	–	0.67
018	Golden	15	648	1.00		5	233	93.45	2.49		0.28	–	4.70
019	Revelstoke	26	885	1.20		5	138	101.08	1.36		0.07	–	2.65
020	Salmon Arm	93	3,216	1.48	*	9	253	337.96	0.75		0.20	–	1.29
021	Armstrong–Spallumcheen	16	550	0.77		6	350	107.93	3.24		0.65	–	5.84
022	Vernon	147	5,490	1.29	*	16	505	620.10	0.81		0.34	–	1.29
023	Central Okanagan	253	8,654	0.81	*	51	1,603	1,586.69	1.01		0.69	–	1.33
024	Kamloops	317	11,133	1.37	*	41	1,442	1,202.87	1.20		0.78	–	1.62
025	100 Mile House	69	2,427	2.07	*	5	158	180.00	0.87		0.07	–	1.68
026	North Thompson	12	480	1.13		7	228	61.99	3.67		0.60	–	6.74
027	Cariboo–Chilcotin	114	4,449	1.84	*	21	728	351.07	2.07	*	1.08	–	3.07
028	Quesnel	94	3,374	1.55	*	11	350	316.98	1.10		0.36	–	1.85
029	Lillooet	20	780	1.89		8	175	57.58	3.04		0.13	–	5.95
030	South Cariboo	33	1,163	1.98	*	3	128	84.64	1.51		0.00	–	3.35
031	Merritt	57	2,172	2.30	*	10	390	138.33	2.82		0.90	–	4.74
032	Hope	46	1,415	2.30	*	4	135	87.57	1.54		0.00	–	3.27
033	Chilliwack	181	6,583	1.27	*	32	910	756.23	1.20		0.72	–	1.68
034	Abbotsford	206	7,766	0.89		38	1,250	1,260.75	0.99		0.65	–	1.34
035	Langley	173	6,288	0.73	*	30	930	1,259.62	0.74		0.45	–	1.03
036	Surrey	621	22,872	0.84	*	120	4,122	3,943.56	1.05		0.84	–	1.25
037	Delta	122	4,555	0.56	*	9	313	1,156.23	0.27	*	0.07	–	0.47
038	Richmond	184	6,570	0.51	*	23	543	1,914.15	0.28	*	0.14	–	0.42
040	New Westminster	162	5,740	1.29	*	22	610	636.09	0.96		0.53	–	1.39
041	Burnaby	311	11,101	0.70	*	39	1,308	2,222.16	0.59	*	0.37	–	0.80
042	Maple Ridge	118	3,929	0.66	*	25	998	877.44	1.14		0.66	–	1.61
043	Coquitlam	246	8,845	0.58	*	34	1,220	2,226.87	0.55	*	0.34	–	0.75
044	North Vancouver	187	6,616	0.63	*	27	1,038	1,469.78	0.71	*	0.42	–	0.99
045	West Vancouver–Bowen Is.	61	1,803	0.54	*	11	368	484.92	0.76		0.25	–	1.27
046	Sunshine Coast	66	2,215	1.21		12	350	276.67	1.27		0.43	–	2.10
047	Powell River	55	1,740	1.14		3	53	221.41	0.24	+	0.00	–	0.58
048	Howe Sound	93	3,572	1.32	*	16	560	425.14	1.32		0.64	–	2.00
049	Bella Coola Valley	23	638	2.35	*	4	85	40.50	2.10		0.00	–	4.30
050	Queen Charlotte	24	790	1.54		6	130	72.82	1.79		0.12	–	3.45
051	Snow Country	6	275	3.08		–	–	9.71	–		–	–	–
052	Prince Rupert	60	2,095	1.24		10	290	227.54	1.27		0.41	–	2.14
053	Upper Skeena	21	753	1.47		3	143	74.83	1.90		0.00	–	4.16
054	Smithers	50	2,072	1.32		2	85	229.01	0.37	+	0.00	–	0.89
055/093	Burns Lake/Eutsuk	34	1,382	2.20	*	6	180	91.82	1.96		0.24	–	3.68
056	Nechako	71	2,823	1.85	*	10	365	221.14	1.65		0.49	–	2.81
057	Prince George	285	10,910	1.19	*	42	1,520	1,309.59	1.16		0.78	–	1.54
059	Peace River South	70	2,749	1.11		14	425	339.89	1.25		0.47	–	2.04
060	Peace River North	74	2,764	1.09		10	345	375.86	0.92		0.29	–	1.54
061	Greater Victoria	403	13,154	0.81	*	81	2,663	2,219.88	1.20		0.91	–	1.49
062	Sooke	88	2,995	0.70	*	15	473	621.24	0.76		0.35	–	1.17
063	Saanich	88	2,840	0.70	*	17	533	583.60	0.91		0.44	–	1.38
064	Gulf Islands	20	585	0.67	*	5	128	135.91	0.94		0.00	–	1.94
065	Cowichan	118	4,281	1.12		11	503	569.33	0.88		0.34	–	1.43
066	Lake Cowichan	12	420	0.84		2	95	73.18	1.30		0.00	–	3.11
067	Ladysmith	52	1,944	1.70	*	3	93	161.23	0.57		0.00	–	1.27
068	Nanaimo	210	7,112	1.02		40	1,230	1,023.74	1.20		0.79	–	1.61
069	Qualicum	92	3,192	1.32	*	11	387	371.56	1.04		0.33	–	1.75
070	Alberni	120	4,543	1.74	*	11	408	375.86	1.08		0.37	–	1.79
071	Courtenay	151	5,461	1.27	*	23	812	640.74	1.27		0.70	–	1.84
072/084	Campbell River/V.I. West	124	4,480	1.21		13	438	531.24	0.82		0.33	–	1.32
075	Mission	92	3,280	1.12		13	368	423.88	0.87		0.34	–	1.40
076	Agassiz–Harrison	30	1,240	1.91	*	3	113	98.68	1.14		0.00	–	2.46
077	Summerland	26	590	0.82		2	100	106.22	0.94		0.00	–	2.25
078	Enderby	29	993	1.86	*	9	298	82.61	3.60	*	1.10	–	6.11
080	Kitimat	22	900	0.81		6	285	156.27	1.82		0.31	–	3.33
081	Fort Nelson	23	928	1.57		1	48	84.89	0.56		0.00	–	1.66
083	Central Coast	9	393	2.37		2	75	24.63	3.04		0.00	–	8.12
085	Vancouver Island North	58	2,259	1.65	*	8	300	189.26	1.58		0.31	–	2.86
087/094	Stikine/Telegraph Creek	16	655	3.99	*	4	180	23.08	7.78		0.00	–	16.12
088	Terrace	76	2,790	1.38	*	9	248	286.33	0.86		0.25	–	1.48
092	Nishga	11	418	2.31		2	90	28.82	3.12		0.00	–	7.46
161	Vancouver City Centre	313	10,443	1.23	*	54	1,735	1,332.17	1.30		0.93	–	1.68
162	Vancouver Downtown E. Side	529	17,947	3.81	*	67	2,003	679.25	2.95	*	2.19	–	3.70
163	Vancouver North East	174	6,202	0.80	*	28	1,050	1,101.84	0.95		0.58	–	1.32
164	Vancouver West Side	149	5,353	0.52	*	28	910	1,472.64	0.62	*	0.37	–	0.87
165	Vancouver Midtown	218	7,509	1.00		29	928	1,037.14	0.89		0.54	–	1.25
166	Vancouver South	207	6,913	0.71	*	32	950	1,356.24	0.70	*	0.42	–	0.98
039	**VANCOUVER TOTAL**	**1,631**	**55,788**	**1.15**	*	**239**	**7,612**	**6,979.29**	**1.09**		**0.94**	–	**1.24**
	N.S.	26	–	–		–	–	–	–		–	–	–
	PROVINCIAL TOTAL	**8,889**	–	–		**1,375**	–	–	–		–	–	–

Note: * Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed).
+ Denotes significance based on less than five deaths. PYLL and PYLL Index: see glossary for more details. LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not Stated. Non-residents are excluded.

FIGURE 21
EXTERNAL CAUSES OF DEATH BY LOCAL HEALTH AREA
BRITISH COLUMBIA, 1994–1998



Note: PYLLI – Potential Years of Life Lost Index. Refer to Figure 1 to clarify geographical location of Local Health Areas.

HIGHLIGHTS TO TABLE 36/FIGURE 21

- There were four Local Health Areas (LHAs) with statistically significant and high Potential Years of Life Lost Index (PYLLI) for under 75 years of age, for external causes of death or accidents and violence, based on at least five deaths in 1999. These LHAs, along with their PYLLI values for 1999 (number of deaths in parentheses) were:

078	Enderby	3.60	(9)
162	Vancouver Downtown E. Side	2.95	(67)
006/007	Kootenay Lake/Nelson	2.19	(18)
027	Cariboo–Chilcotin	2.07	(21)

  All the above LHAs also had statistically significant and high PYLLI values for external causes of death (age under 75 years) in 1994–1998.

- Seven LHAs had PYLLI values for external causes in 1999 that were statistically significant and low, based on five or more deaths. The PYLLI for these LHAs (number of deaths in parentheses) were:

037	Delta	0.27	(9)
038	Richmond	0.28	(23)
043	Coquitlam	0.55	(34)
041	Burnaby	0.59	(39)
164	Vancouver West Side	0.62	(28)
166	Vancouver South	0.70	(32)
044	North Vancouver	0.71	(27)

  All of the above LHAs also had statistically significant and low PYLLI values for external causes of death (age under 75 years) in 1994–1998.

- In the 1994–1998 period, a total of 29 LHAs had PYLLI values for external causes that were statistically significant and high. The six LHAs with the highest statistically significant index values for this five-year period (number of deaths in parentheses) were:

087/094	Stikine/Telegraph Creek	3.99	(16)
162	Vancouver Downtown E. Side	3.81	(529)
016	Keremeos	2.40	(19)
049	Bella Coola Valley	2.35	(23)
031	Merritt	2.30	(57)
032	Hope	2.30	(46)

- In the 1994–1998 period, 17 LHAs had PYLLI values for external causes that were statistically significant and low, based on five or more deaths. The five LHAs with the lowest index values that were statistically significant for this five-year period (number of deaths in parentheses) were:

038	Richmond	0.51	(184)
164	Vancouver West Side	0.52	(149)
045	West Vancouver–Bowen Is.	0.54	(61)
037	Delta	0.56	(122)
043	Coquitlam	0.58	(246)

TABLE 37

DEATHS DUE TO MEDICALLY TREATABLE DISEASES BY SELECTED CAUSES AND GENDER

BRITISH COLUMBIA, 1994–1998 AND 1999

Cause of Death	ICD9 Code(s)	1994–1998		1999					
				Male		Female		Total	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Hypertensive disease	401–405	79	13.6	17	22.1	4	5.3	21	13.7
Cervical cancer	180	146	25.1	–	–	30	39.5	30	19.6
Pneumonia & unqualified bronchitis	481–486, 490	127	21.9	27	35.1	10	13.2	37	24.2
Tuberculosis	010–018, 137	17	2.9	2	2.6	2	2.6	4	2.6
Asthma	493	24	4.1	2	2.6	5	6.6	7	4.6
Chronic rheumatic heart disease	393–398	13	2.2	1	1.3	1	1.3	2	1.3
Acute respiratory infections and influenza	460–466, 487	6	1.0	1	1.3	–	–	1	0.7
Bacterial infections*	001–005, ...730	132	22.7	19	24.7	21	27.6	40	26.1
Hodgkin's disease	201	7	1.2	3	3.9	–	–	3	2.0
Abdominal hernias, cholecystitis and cholelithiasis, appendicitis	540–543, 550–553, 574, 575	29	5.0	5	6.5	3	3.9	8	5.2
Deficiency anemias	280, 281	1	0.2	–	–	–	–	–	–
TOTAL		**581**	**100.0**	**77**	**100.0**	**76**	**100.0**	**153**	**100.0**

Note: Medically Treatable Diseases – based on Charlton's definition, as being directly related to death (see glossary under Medically Treatable Diseases).
*ICD9 codes include 001–005, 020–041, 320, 382, 383, 390–392, 680–686, 711, 730.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.

HIGHLIGHTS TO TABLE 37

- The medically treatable diseases presented in this table were selected according to Charlton's definition which is based on mortality, in specific age groups, which could potentially be avoided through appropriate medical attention (see Glossary for detailed definition). In 1999, there were 153 deaths that were identified as medically treatable according to this definition.
- Females accounted for 76 deaths from medically treatable diseases in 1999. Of these female deaths, more than a third (39.5%) were due to cervical cancer (30 deaths), followed by bacterial infections (21), and pneumonia and unqualified bronchitis (10). In comparison, there were 77 male deaths (50.3%) from medically treatable diseases. In total, over a third (35.1%) of these male deaths were from pneumonia and unqualified bronchitis (27), bacterial infections (19), and hypertensive disease (17).
- In the 1994–1998 period, three categories accounted for 69.7% of the 581 deaths from medically treatable diseases. These were cervical cancer (146 deaths), bacterial infections (132), and pneumonia and unqualified bronchitis (127).

TABLE 37
DEATHS DUE TO MEDICALLY TREATABLE DISEASES BY SELECTED CAUSES AND GENDER
BRITISH COLUMBIA, 1994–1998 AND 1999

Cause of Death	ICD9 Code(s)	1994–1998		1999					
				Male		Female		Total	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Hypertensive disease	401–405	79	13.6	17	22.1	4	5.3	21	13.7
Cervical cancer	180	146	25.1	–	–	30	39.5	30	19.6
Pneumonia & unqualified bronchitis	481–486, 490	127	21.9	27	35.1	10	13.2	37	24.2
Tuberculosis	010–018, 137	17	2.9	2	2.6	2	2.6	4	2.6
Asthma	493	24	4.1	2	2.6	5	6.6	7	4.6
Chronic rheumatic heart disease	393–398	13	2.2	1	1.3	1	1.3	2	1.3
Acute respiratory infections and influenza	460–466, 487	6	1.0	1	1.3	–	–	1	0.7
Bacterial infections*	001–005, ...730	132	22.7	19	24.7	21	27.6	40	26.1
Hodgkin's disease	201	7	1.2	3	3.9	–	–	3	2.0
Abdominal hernias, cholecystitis and cholelithiasis, appendicitis	540–543, 550–553, 574, 575	29	5.0	5	6.5	3	3.9	8	5.2
Deficiency anemias	280, 281	1	0.2	–	–	–	–	–	–
TOTAL		**581**	**100.0**	**77**	**100.0**	**76**	**100.0**	**153**	**100.0**

Note: Medically Treatable Diseases – based on Charlton's definition, as being directly related to death (see glossary under Medically Treatable Diseases).
*ICD9 codes include 001–005, 020–041, 320, 382, 383, 390–392, 680–686, 711, 730.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.

HIGHLIGHTS TO TABLE 37

- The medically treatable diseases presented in this table were selected according to Charlton's definition which is based on mortality, in specific age groups, which could potentially be avoided through appropriate medical attention (see Glossary for detailed definition). In 1999, there were 153 deaths that were identified as medically treatable according to this definition.
- Females accounted for 76 deaths from medically treatable diseases in 1999. Of these female deaths, more than a third (39.5%) were due to cervical cancer (30 deaths), followed by bacterial infections (21), and pneumonia and unqualified bronchitis (10). In comparison, there were 77 male deaths (50.3%) from medically treatable diseases. In total, over a third (35.1%) of these male deaths were from pneumonia and unqualified bronchitis (27), bacterial infections (19), and hypertensive disease (17).
- In the 1994–1998 period, three categories accounted for 69.7% of the 581 deaths from medically treatable diseases. These were cervical cancer (146 deaths), bacterial infections (132), and pneumonia and unqualified bronchitis (127).

STANDARDIZED MORTALITY RATIO BY LOCAL HEALTH AREA
DEATHS DUE TO SELECTED MEDICALLY TREATABLE DISEASES

Local Health Area		1994–1998 Observed Deaths	1994–1998 SMR (p)	1999 Observed Deaths	1999 Expected Deaths	1999 SMR (p)	95% Confidence Interval Lower	95% Confidence Interval Upper
001	Fernie	–	–	–	0.68	–	–	–
002	Cranbrook	1	0.26	1	1.00	1.00	0.01 –	5.54
003	Kimberley	1	0.69	–	0.37	–	– –	–
004	Windermere	1	0.75	–	0.39	–	– –	–
005	Creston	2	1.00	–	0.50	–	– –	–
006/007	Kootenay Lake/Nelson	1	0.22	3	1.19	2.51	0.51 –	7.35
009	Castlegar	3	1.43	1	0.55	1.81	0.02 –	10.08
010	Arrow Lakes	1	1.21	1	0.22	4.51	0.06 –	25.10
011	Trail	4	1.26	–	0.83	–	– –	–
012/013	Grand Forks/Kettle Valley	3	1.42	–	0.55	–	– –	–
014	Southern Okanagan	2	0.70	1	0.74	1.36	0.02 –	7.54
015	Penticton	11	1.89	–	1.46	–	– –	–
016	Keremeos	1	1.33	–	0.20	–	– –	–
017	Princeton	–	–	–	0.23	–	– –	–
018	Golden	1	0.90	–	0.30	–	– –	–
019	Revelstoke	–	–	–	0.35	–	– –	–
020	Salmon Arm	5	1.02	1	1.33	0.75	0.01 –	4.17
021	Armstrong–Spallumcheen	1	0.68	–	0.39	–	– –	–
022	Vernon	5	0.58	2	2.25	0.89	0.10 –	3.21
023	Central Okanagan	13	0.61	2	5.64	0.35	0.04 –	1.28
024	Kamloops	15	0.97	4	4.13	0.97	0.26 –	2.48
025	100 Mile House	4	1.54	1	0.69	1.44	0.02 –	8.01
026	North Thompson	–	–	1	0.21	4.71	0.06 –	26.20
027	Cariboo–Chilcotin	7	1.66	–	1.13	–	– –	–
028	Quesnel	5	1.27	1	1.03	0.97	0.01 –	5.40
029	Lillooet	1	1.42	–	0.18	–	– –	–
030	South Cariboo	4	3.29	–	0.32	–	– –	–
031	Merritt	4	2.34	–	0.45	–	– –	–
032	Hope	2	1.53	–	0.33	–	– –	–
033	Chilliwack	8	0.84	4	2.48	1.61	0.43 –	4.13
034	Abbotsford	13	0.88	4	3.90	1.03	0.28 –	2.63
035	Langley	20	1.27	10	4.18	2.39 *	1.14 –	4.40
036	Surrey	47	0.98	14	12.88	1.09	0.59 –	1.82
037	Delta	13	0.84	1	4.01	0.25	0.00 –	1.39
038	Richmond	12	0.49 *	5	6.57	0.76	0.25 –	1.78
040	New Westminster	10	1.30	4	2.07	1.93	0.52 –	4.95
041	Burnaby	19	0.68	4	7.31	0.55	0.15 –	1.40
042	Maple Ridge	10	0.95	3	2.86	1.05	0.21 –	3.07
043	Coquitlam	19	0.71	8	7.34	1.09	0.47 –	2.15
044	North Vancouver	20	0.99	3	5.30	0.57	0.11 –	1.65
045	West Vancouver–Bowen Is.	6	0.73	1	2.08	0.48	0.01 –	2.68
046	Sunshine Coast	2	0.49	2	1.09	1.83	0.21 –	6.62
047	Powell River	5	1.56	1	0.83	1.21	0.02 –	6.71
048	Howe Sound	2	0.52	2	1.09	1.84	0.21 –	6.65
049	Bella Coola Valley	1	2.16	–	0.13	–	– –	–
050	Queen Charlotte	–	–	1	0.22	4.56	0.06 –	25.36
051	Snow Country	1	6.42	–	0.03	–	– –	–
052	Prince Rupert	7	2.60 *	1	0.66	1.52	0.02 –	8.48
053	Upper Skeena	3	4.06	–	0.20	–	– –	–
054	Smithers	1	0.40	–	0.67	–	– –	–
055/093	Burns Lake/Eutsuk	1	0.92	1	0.28	3.55	0.05 –	19.74
056	Nechako	4	1.64	–	0.65	–	– –	–
057	Prince George	20	1.33	6	3.97	1.51	0.55 –	3.29
059	Peace River South	8	1.95	1	1.05	0.95	0.01 –	5.30
060	Peace River North	4	1.02	–	1.04	–	– –	–
061	Greater Victoria	32	1.08	6	7.50	0.80	0.29 –	1.74
062	Sooke	6	0.76	–	2.12	–	– –	–
063	Saanich	5	0.53	2	2.41	0.83	0.09 –	3.00
064	Gulf Islands	–	–	–	0.64	–	– –	–
065	Cowichan	5	0.64	1	2.07	0.48	0.01 –	2.69
066	Lake Cowichan	2	2.02	–	0.26	–	– –	–
067	Ladysmith	5	2.03	1	0.62	1.60	0.02 –	8.90
068	Nanaimo	11	0.82	3	3.55	0.84	0.17 –	2.47
069	Qualicum	6	1.00	4	1.62	2.47	0.67 –	6.33
070	Alberni	5	0.99	3	1.31	2.30	0.46 –	6.72
071	Courtenay	6	0.67	4	2.38	1.68	0.45 –	4.29
072/084	Campbell River/V.I. West	9	1.33	–	1.79	–	– –	–
075	Mission	10	1.94	3	1.39	2.16	0.43 –	6.31
076	Agassiz–Harrison	–	–	1	0.31	3.18	0.04 –	17.69
077	Summerland	4	2.36	1	0.43	2.33	0.03 –	12.97
078	Enderby	3	2.73	–	0.31	–	– –	–
080	Kitimat	1	0.51	–	0.51	–	– –	–
081	Fort Nelson	–	–	–	0.21	–	– –	–
083	Central Coast	2	7.69	–	0.07	–	– –	–
085	Vancouver Island North	2	0.88	–	0.59	–	– –	–
087/094	Stikine/Telegraph Creek	–	–	–	0.08	–	– –	–
088	Terrace	4	1.23	1	0.84	1.19	0.02 –	6.61
092	Nishga	1	3.83	–	0.07	–	– –	–
161	Vancouver City Centre	18	1.40	5	3.59	1.39	0.45 –	3.25
162	Vancouver Downtown E. Side	34	4.39 *	12	2.05	5.85 *	3.02 –	10.22
163	Vancouver North East	13	0.96	3	3.51	0.86	0.17 –	2.50
164	Vancouver West Side	10	0.55	3	4.57	0.66	0.13 –	1.92
165	Vancouver Midtown	9	0.73	3	3.20	0.94	0.19 –	2.74
166	Vancouver South	21	1.19	2	4.46	0.45	0.05 –	1.62
039	**VANCOUVER TOTAL**	**108**	**1.31 ***	**28**	**21.38**	**1.31**	**0.87 –**	**1.89**
	N.S.	–	–	–	–	–	– –	–
	PROVINCIAL TOTAL	**581**	–	**153**	–	–	– –	–

Note: Medically Treatable Diseases based on Charlton's definition (see glossary – Medically Treatable Diseases). *Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed). + Denotes significance based on less than 5 deaths. SMR – Standardized Mortality Ratio. LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not Stated. Non-residents are excluded.

STANDARDIZED MORTALITY RATIO BY LOCAL HEALTH AREA
DEATHS DUE TO SELECTED MEDICALLY TREATABLE DISEASES

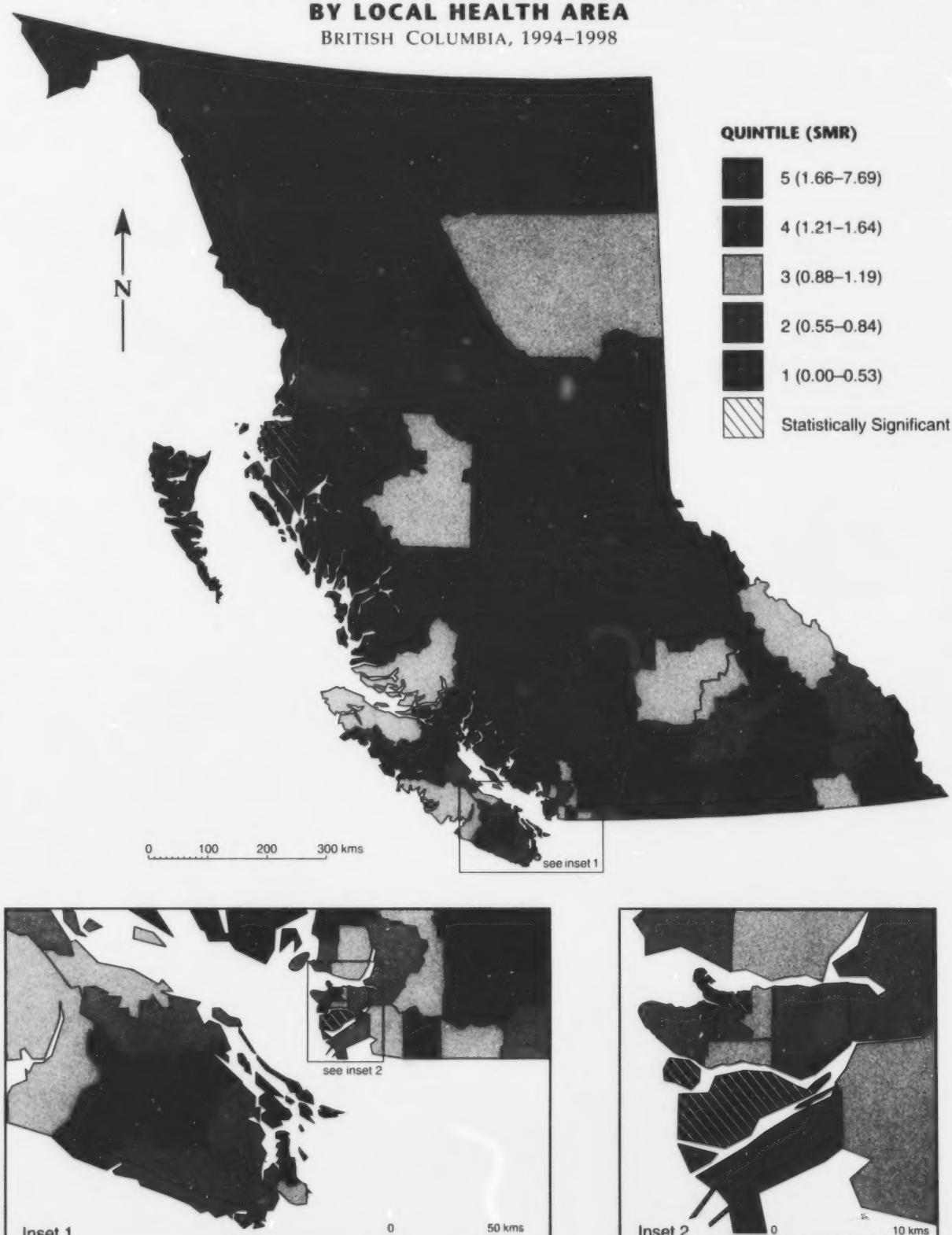
Local Health Area		1994–1998 Observed Deaths	1994–1998 SMR (p)	1999 Observed Deaths	1999 Expected Deaths	1999 SMR (p)	1999 95% Confidence Interval Lower	1999 95% Confidence Interval Upper
001	Fernie	–	–	–	0.68	–	– –	–
002	Cranbrook	1	0.26	1	1.00	1.00	0.01 –	5.54
003	Kimberley	1	0.69	–	0.37	–	– –	–
004	Windermere	1	0.75	–	0.39	–	– –	–
005	Creston	2	1.00	–	0.50	–	– –	–
006/007	Kootenay Lake/Nelson	1	0.22	3	1.19	2.51	0.51 –	7.35
009	Castlegar	3	1.43	1	0.55	1.81	0.02 –	10.08
010	Arrow Lakes	1	1.21	1	0.22	4.51	0.06 –	25.10
011	Trail	4	1.26	–	0.83	–	– –	–
012/013	Grand Forks/Kettle Valley	3	1.42	–	0.55	–	– –	–
014	Southern Okanagan	2	0.70	1	0.74	1.36	0.02 –	7.54
015	Penticton	11	1.89	–	1.46	–	– –	–
016	Keremeos	1	1.33	–	0.20	–	– –	–
017	Princeton	–	–	–	0.23	–	– –	–
018	Golden	1	0.90	–	0.30	–	– –	–
019	Revelstoke	–	–	–	0.35	–	– –	–
020	Salmon Arm	5	1.02	1	1.33	0.75	0.01 –	4.17
021	Armstrong–Spallumcheen	1	0.68	–	0.39	–	– –	–
022	Vernon	5	0.58	2	2.25	0.89	0.10 –	3.21
023	Central Okanagan	13	0.61	2	5.64	0.35	0.04 –	1.28
024	Kamloops	15	0.97	4	4.13	0.97	0.26 –	2.48
025	100 Mile House	4	1.54	1	0.69	1.44	0.02 –	8.01
026	North Thompson	–	–	1	0.21	4.71	0.06 –	26.20
027	Cariboo–Chilcotin	7	1.66	–	1.13	–	– –	–
028	Quesnel	5	1.27	1	1.03	0.97	0.01 –	5.40
029	Lillooet	1	1.42	–	0.18	–	– –	–
030	South Cariboo	4	3.29	–	0.32	–	– –	–
031	Merritt	4	2.34	–	0.45	–	– –	–
032	Hope	2	1.53	–	0.33	–	– –	–
033	Chilliwack	8	0.84	4	2.48	1.61	0.43 –	4.13
034	Abbotsford	13	0.88	4	3.90	1.03	0.28 –	2.63
035	Langley	20	1.27	10	4.18	2.39 *	1.14 –	4.40
036	Surrey	47	0.98	14	12.88	1.09	0.59 –	1.82
037	Delta	13	0.84	1	4.01	0.25	0.00 –	1.39
038	Richmond	12	0.49 *	5	6.57	0.76	0.25 –	1.78
040	New Westminster	10	1.30	4	2.07	1.93	0.52 –	4.95
041	Burnaby	19	0.68	4	7.31	0.55	0.15 –	1.40
042	Maple Ridge	10	0.95	3	2.86	1.05	0.21 –	3.07
043	Coquitlam	19	0.71	8	7.34	1.09	0.47 –	2.15
044	North Vancouver	20	0.99	3	5.30	0.57	0.11 –	1.65
045	West Vancouver–Bowen Is.	6	0.73	1	2.08	0.48	0.01 –	2.68
046	Sunshine Coast	2	0.49	2	1.09	1.83	0.21 –	6.62
047	Powell River	5	1.56	1	0.83	1.21	0.02 –	6.71
048	Howe Sound	2	0.52	2	1.09	1.84	0.21 –	6.65
049	Bella Coola Valley	1	2.16	–	0.13	–	– –	–
050	Queen Charlotte	–	–	1	0.22	4.56	0.06 –	25.36
051	Snow Country	1	6.42	–	0.03	–	– –	–
052	Prince Rupert	7	2.60 *	1	0.66	1.52	0.02 –	8.48
053	Upper Skeena	3	4.06	–	0.20	–	– –	–
054	Smithers	1	0.40	–	0.67	–	– –	–
055/093	Burns Lake/Eutsuk	1	0.92	1	0.28	3.55	0.05 –	19.74
056	Nechako	4	1.64	–	0.65	–	– –	–
057	Prince George	20	1.33	6	3.97	1.51	0.55 –	3.29
059	Peace River South	8	1.95	1	1.05	0.95	0.01 –	5.30
060	Peace River North	4	1.02	–	1.04	–	– –	–
061	Greater Victoria	32	1.08	6	7.50	0.80	0.29 –	1.74
062	Sooke	6	0.76	–	2.12	–	– –	–
063	Saanich	5	0.53	2	2.41	0.83	0.09 –	3.00
064	Gulf Islands	–	–	–	0.64	–	– –	–
065	Cowichan	5	0.64	1	2.07	0.48	0.01 –	2.69
066	Lake Cowichan	2	2.02	–	0.26	–	– –	–
067	Ladysmith	5	2.03	1	0.62	1.60	0.02 –	8.90
068	Nanaimo	11	0.82	3	3.55	0.84	0.17 –	2.47
069	Qualicum	6	1.00	4	1.62	2.47	0.67 –	6.33
070	Alberni	5	0.99	3	1.31	2.30	0.46 –	6.72
071	Courtenay	6	0.67	4	2.38	1.68	0.45 –	4.29
072/084	Campbell River/V.I. West	9	1.33	–	1.79	–	– –	–
075	Mission	10	1.94	3	1.39	2.16	0.43 –	6.31
076	Agassiz–Harrison	–	–	1	0.31	3.18	0.04 –	17.69
077	Summerland	4	2.36	1	0.43	2.33	0.03 –	12.97
078	Enderby	3	2.73	–	0.31	–	– –	–
080	Kitimat	1	0.51	–	0.51	–	– –	–
081	Fort Nelson	–	–	–	0.21	–	– –	–
083	Central Coast	2	7.69	–	0.07	–	– –	–
085	Vancouver Island North	2	0.88	–	0.59	–	– –	–
087/094	Stikine/Telegraph Creek	–	–	–	0.08	–	– –	–
088	Terrace	4	1.23	1	0.84	1.19	0.02 –	6.61
092	Nishga	1	3.83	–	0.07	–	– –	–
161	Vancouver City Centre	18	1.40	5	3.59	1.39	0.45 –	3.25
162	Vancouver Downtown E. Side	34	4.39 *	12	2.05	5.85 *	3.02 –	10.22
163	Vancouver North East	13	0.96	3	3.51	0.86	0.17 –	2.50
164	Vancouver West Side	10	0.55	3	4.57	0.66	0.13 –	1.92
165	Vancouver Midtown	9	0.73	3	3.20	0.94	0.19 –	2.74
166	Vancouver South	21	1.19	2	4.48	0.45	0.05 –	1.62
039	**VANCOUVER TOTAL**	168	1.31 *	28	21.38	1.31	0.87 –	1.89
	N.S.	–	–	–	–	–	–	–
	PROVINCIAL TOTAL	581	–	153	–	–	–	–

Note: Medically Treatable Diseases based on Charlton's definition (see glossary – Medically Treatable Diseases). *Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed). + Denotes significance based on less than 5 deaths. SMR – Standardized Mortality Ratio. LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not Stated. Non-residents are excluded.

FIGURE 22

DEATHS DUE TO SELECTED MEDICALLY TREATABLE DISEASES BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1994–1998



Note: SMR – Standardized Mortality Ratio. Refer to Figure 1 to clarify geographical location of Local Health Areas.

HIGHLIGHTS TO TABLE 38/FIGURE 22

- The deaths identified as medically treatable (see Glossary) occurred across the province, although the numbers were relatively small in Local Health Areas (LHAs) outside the lower mainland. In 1999, there were only two LHAs with statistically significant and high Standardized Mortality Ratios (SMR) for medically treatable diseases. The ratios for these LHAs (with number of medically treatable deaths in parentheses) were:

162	Vancouver Downtown E. Side	5.85	(12)
035	Langley	2.39	(10)

- Vancouver Downtown East Side LHA also had statistically significant and high SMRs for medically treatable diseases in the 1994–1998 period.
- There were no LHAs with statistically significant and low SMRs for medically treatable diseases in 1999.
- In 1999, 34 LHAs had no deaths due to medically treatable diseases. The small number of deaths from medically treatable diseases in any individual year limits the scope for analysis.
- Over the 1994–1998 period, the SMRs were statistically significant and high in two LHAs. The ratios for these LHAs (with number of medically treatable deaths in parentheses) were:

162	Vancouver Downtown E. Side	4.39	(34)
052	Prince Rupert	2.60	(7)

- There was one LHA with statistically significant and low SMRs for medically treatable diseases during the 1994–1998 period:

038	Richmond	0.49	(12)

- During the 1994–1998 period, nine LHAs had no deaths from medically treatable diseases.

TABLE 39

ALCOHOL-RELATED DEATHS BY CAUSE

BRITISH COLUMBIA, 1994–1998 AND 1999

Cause of Death	ICD9 Code(s)	Year of Death: 1994–1998 Number	1994–1998 Percent	1999 Number	1999 Percent
Directly Related to Alcohol					
Alcoholic psychoses & dependence	291, 303	648	7.1	93	5.1
Alcoholic intoxication	305.0, 790.3	60	0.7	5	0.3
Alcoholic gastritis	535.3	20	0.2	3	0.2
Liver disease/cirrhosis	571.0–571.3, 571.5, 571.9	1,249	13.7	247	13.5
Chronic pancreatitis	577.1	15	0.2	2	0.1
Accidental alcohol poisoning	E860	117	1.3	20	1.1
Other	357.5, 425.5, 648.4, 760.7	141	1.5	14	0.8
Subtotal		**2,250**	**24.7**	**384**	**21.0**
Indirectly Related to Alcohol					
Infectious/parasitic diseases	001–139	232	2.5	74	4.0
Neoplasms	140–239	1,186	13.0	271	14.8
Endocrine/nutritional/metabolic dis.	240–279	196	2.2	58	3.2
Mental disorders	290–319	84	0.9	19	1.0
Neurological disorders	320–359	107	1.2	22	1.2
Diseases of the circulatory system	390–459	1,962	21.5	415	22.7
Diseases of the respiratory system	460–519	683	7.5	161	8.8
Diseases of the digestive system	520–579	380	4.2	82	4.5
Diseases of the urinary system	580–599	66	0.7	13	0.7
Accidents*	E800–E949, E970–E979, E990–E999	1,302	14.3	182	9.9
Suicide	E950–E959	464	5.1	82	4.5
Homicide	E960–E969	57	0.6	3	0.2
Other	280–289, 360–389, 600–799	137	1.5	66	3.6
Subtotal		**6,856**	**75.3**	**1,448**	**79.0**
TOTAL		**9,106**	**100.0**	**1,832**	**100.0**

Note: Alcohol-related deaths – ICD9 = 291, 303, 305.0, 357.5, 425.5, 535.3, 571.0–571.3, 571.5, 571.9, 577.1, 648.4, 760.7, 790.3 or E860.
*Excludes suicide, homicide and deaths undetermined whether accidental or intentional.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.

TABLE 39

ALCOHOL-RELATED DEATHS BY CAUSE

BRITISH COLUMBIA, 1994–1998 AND 1999

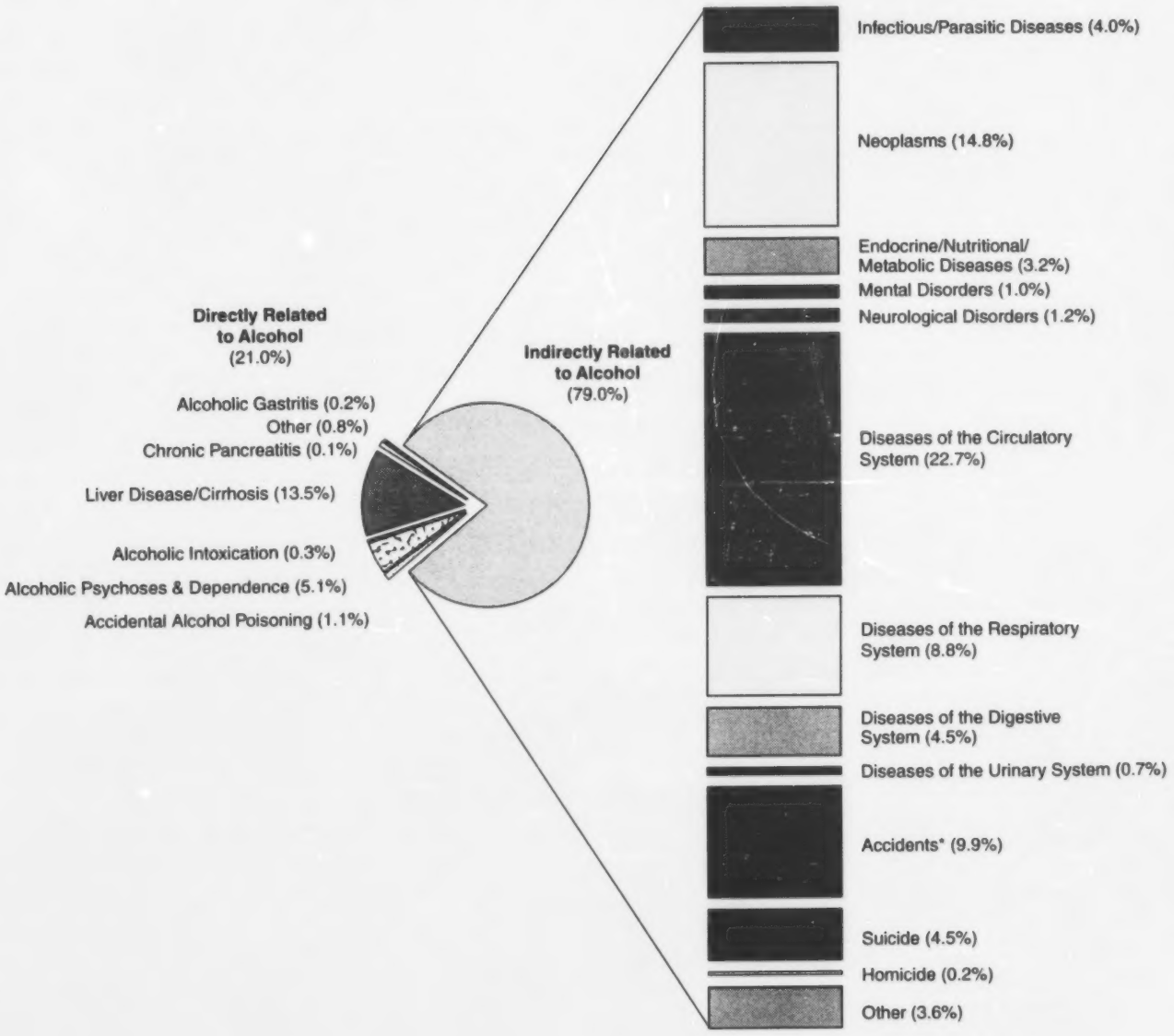
Cause of Death	ICD9 Code(s)	Year of Death: 1994–1998 Number	1994–1998 Percent	1999 Number	1999 Percent
Directly Related to Alcohol					
Alcoholic psychoses & dependence	291, 303	648	7.1	93	5.1
Alcoholic intoxication	305.0, 790.3	60	0.7	5	0.3
Alcoholic gastritis	535.3	20	0.2	3	0.2
Liver disease/cirrhosis	571.0–571.3, 571.5, 571.9	1,249	13.7	247	13.5
Chronic pancreatitis	577.1	15	0.2	2	0.1
Accidental alcohol poisoning	E860	117	1.3	20	1.1
Other	357.5, 425.5, 648.4, 760.7	141	1.5	14	0.8
Subtotal		**2,250**	**24.7**	**384**	**21.0**
Indirectly Related to Alcohol					
Infectious/parasitic diseases	001–139	232	2.5	74	4.0
Neoplasms	140–239	1,186	13.0	271	14.8
Endocrine/nutritional/metabolic dis.	240–279	196	2.2	58	3.2
Mental disorders	290–319	84	0.9	19	1.0
Neurological disorders	320–359	107	1.2	22	1.2
Diseases of the circulatory system	390–459	1,962	21.5	415	22.7
Diseases of the respiratory system	460–519	683	7.5	161	8.8
Diseases of the digestive system	520–579	380	4.2	82	4.5
Diseases of the urinary system	580–599	66	0.7	13	0.7
Accidents*	E800–E949, E970–E979, E990–E999	1,302	14.3	182	9.9
Suicide	E950–E959	464	5.1	82	4.5
Homicide	E960–E969	57	0.6	3	0.2
Other	280–289, 360–389, 600–799	137	1.5	66	3.6
Subtotal		**6,856**	**75.3**	**1,448**	**79.0**
TOTAL		**9,106**	**100.0**	**1,832**	**100.0**

Note: Alcohol-related deaths – ICD9 = 291, 303, 305.0, 357.5, 425.5, 535.3, 571.0–571.3, 571.5, 571.9, 577.1, 648.4, 760.7, 790.3 or E860.
*Excludes suicide, homicide and deaths undetermined whether accidental or intentional.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.

FIGURE 23

ALCOHOL-RELATED DEATHS BY CAUSE

BRITISH COLUMBIA, 1999



* Excludes suicide, homicide and deaths undetermined whether accidental or intentional.
See Table 39 for ICD9 codes for each category.

HIGHLIGHTS TO TABLE 39/FIGURE 23

- There were 1,832 deaths that were directly or indirectly related to alcohol in 1999 and 9,106 deaths in the five-year period, 1994–1998.
- Deaths that are 'directly' related to alcohol are identified by specific underlying causes of death which involve alcohol. Deaths that are 'indirectly' related to alcohol do not have an alcohol-related underlying cause of death, but alcohol was noted somewhere on the *Medical Certification of Death* form. In 1993, the Division of Vital Statistics introduced a revised form which contained a box in which physicians and coroners could note environmental, occupational and lifestyle factors, including pesticides, asbestos and abuse of alcohol/tobacco. The addition of this box elicited an increase in the number of times alcohol was mentioned, and therefore has resulted in an increased reporting of deaths indirectly related to alcohol.
- In 1999, 384 deaths (21.0%) were directly related to alcohol, which is based on the underlying cause of death. In the 1994–1998 period, 2,250 deaths or 24.7% were directly related to alcohol.
- In 1999, liver disease/cirrhosis accounted for more than six out of ten direct deaths from alcohol, higher than the proportion shown for 1994–1998. Alcoholic psychoses and dependence was the next largest category of deaths directly related to alcohol.
- There were 1,448 deaths (79.0%) indirectly related to alcohol in 1999. Circulatory system diseases were the largest category of deaths indirectly related to alcohol, accounting for over one fifth of these deaths in 1999 and a slightly lower proportion in 1994–1998. Other large causes of death in the indirect group were neoplasms, accidents, and diseases of the respiratory system.

TABLE 40
ALCOHOL-RELATED DEATHS BY AGE AND GENDER
BRITISH COLUMBIA, 1999

Age	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
<15	–	–	–	–	–	–
15–19	8	0.6	1	0.2	9	0.5
20–24	20	1.4	6	1.4	26	1.4
25–44	165	11.8	51	11.6	216	11.8
45–64	492	35.3	135	30.8	627	34.2
65–84	638	45.8	213	48.6	851	46.5
85+	71	5.1	32	7.3	103	5.6
TOTAL	**1,394**	**100.0**	**438**	**100.0**	**1,832**	**100.0**

Note: Alcohol–related deaths – ICD9 = 291, 303, 305.0, 357.5, 425.5, 535.3, 571.0–571.3, 571.5, 571.9, 577.1, 648.4, 760.7, 790.3 or E860.
Total percentage may not add up to 100 due to rounding. Non-residents are excluded.

HIGHLIGHTS TO TABLE 40

- There were 1,832 alcohol-related deaths in 1999.
- Out of every 100 alcohol-related deaths in 1999:
  - 76 were males (1,394)
  - 24 were females (438)
- Almost one half of all alcohol related deaths (46.5%) were in the 65 to 84 age group (851 deaths) and approximately one third (34.2%) were aged 45–64 (627 deaths). Only 13.7% of alcohol-related deaths were under 45 years of age, and 5.6% were 85 years or older (103 deaths).

HIGHLIGHTS TO TABLE 39/FIGURE 23

- There were 1,832 deaths that were directly or indirectly related to alcohol in 1999 and 9,106 deaths in the five-year period, 1994–1998.
- Deaths that are 'directly' related to alcohol are identified by specific underlying causes of death which involve alcohol. Deaths that are 'indirectly' related to alcohol do not have an alcohol-related underlying cause of death, but alcohol was noted somewhere on the *Medical Certification of Death* form. In 1993, the Division of Vital Statistics introduced a revised form which contained a box in which physicians and coroners could note environmental, occupational and lifestyle factors, including pesticides, asbestos and abuse of alcohol/tobacco. The addition of this box elicited an increase in the number of times alcohol was mentioned, and therefore has resulted in an increased reporting of deaths indirectly related to alcohol.
- In 1999, 384 deaths (21.0%) were directly related to alcohol, which is based on the underlying cause of death. In the 1994–1998 period, 2,250 deaths or 24.7% were directly related to alcohol.
- In 1999, liver disease/cirrhosis accounted for more than six out of ten direct deaths from alcohol, higher than the proportion shown for 1994–1998. Alcoholic psychoses and dependence was the next largest category of deaths directly related to alcohol.
- There were 1,448 deaths (79.0%) indirectly related to alcohol in 1999. Circulatory system diseases were the largest category of deaths indirectly related to alcohol, accounting for over one fifth of these deaths in 1999 and a slightly lower proportion in 1994–1998. Other large causes of death in the indirect group were neoplasms, accidents, and diseases of the respiratory system.

TABLE 40
ALCOHOL-RELATED DEATHS BY AGE AND GENDER
BRITISH COLUMBIA, 1999

Age	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
<15	–	–	–	–	–	–
15–19	8	0.6	1	0.2	9	0.5
20–24	20	1.4	6	1.4	26	1.4
25–44	165	11.8	51	11.6	216	11.8
45–64	492	35.3	135	30.8	627	34.2
65–84	638	45.8	213	48.6	851	46.5
85+	71	5.1	32	7.3	103	5.6
TOTAL	**1,394**	**100.0**	**438**	**100.0**	**1,832**	**100.0**

Note: Alcohol-related deaths – ICD9 = 291, 303, 305.0, 357.5, 425.5, 535.3, 571.0–571.3, 571.5, 571.9, 577.1, 648.4, 760.7, 790.3 or E860.
Total percentage may not add up to 100 due to rounding. Non-residents are excluded.

HIGHLIGHTS TO TABLE 40

- There were 1,832 alcohol-related deaths in 1999.
- Out of every 100 alcohol-related deaths in 1999:
  - 76 were males (1,394)
  - 24 were females (438)
- Almost one half of all alcohol related deaths (46.5%) were in the 65 to 84 age group (851 deaths) and approximately one third (34.2%) were aged 45–64 (627 deaths). Only 13.7% of alcohol-related deaths were under 45 years of age, and 5.6% were 85 years or older (103 deaths).

STANDARDIZED MORTALITY RATIO BY LOCAL HEALTH AREA, ALCOHOL-RELATED DEATHS

Local Health Area		1994–1998 Observed Deaths	1994–1998 SMR	(p)	1999 Observed Deaths	1999 Expected Deaths	1999 SMR	(p)	95% Confidence Interval Lower		Upper
001	Fernie	21	0.66		5	6.51	0.77		0.25	–	1.79
002	Cranbrook	53	0.95		9	11.41	0.79		0.36	–	1.50
003	Kimberley	23	0.90		8	5.03	1.59		0.69	–	3.14
004	Windermere	17	0.85		5	4.31	1.16		0.37	–	2.70
005	Creston	39	0.94		7	8.26	0.85		0.34	–	1.75
006/007	Kootenay Lake/Nelson	92	1.32	*	22	13.96	1.58		0.99	–	2.39
009	Castlegar	39	1.18		6	6.66	0.90		0.33	–	1.96
010	Arrow Lakes	15	1.03		5	2.93	1.70		0.55	–	3.98
011	Trail	56	0.97		12	11.21	1.07		0.55	–	1.87
012/013	Grand Forks/Kettle Valley	50	1.31		6	7.79	0.77		0.28	–	1.68
014	Southern Okanagan	69	1.00		15	14.19	1.06		0.59	–	1.74
015	Penticton	153	1.19	*	28	25.79	1.09		0.72	–	1.57
016	Keremeos	20	1.21		1	3.41	0.29		0.00	–	1.63
017	Princeton	15	1.01		3	3.09	0.97		0.20	–	2.84
018	Golden	12	0.82		1	2.91	0.34		0.00	–	1.91
019	Revelstoke	28	1.50		6	3.59	1.67		0.61	–	3.63
020	Salmon Arm	78	0.86		10	18.96	0.53	*	0.25	–	0.97
021	Armstrong–Spallumcheen	19	0.78		4	4.85	0.83		0.22	–	2.11
022	Vernon	173	1.12		33	31.38	1.05		0.72	–	1.48
023	Central Okanagan	344	0.88	*	76	80.87	0.94		0.74	–	1.18
024	Kamloops	329	1.44	*	54	46.89	1.15		0.86	–	1.50
025	100 Mile House	68	1.76	*	8	8.02	1.00		0.43	–	1.96
026	North Thompson	9	0.91		3	2.01	1.49		0.30	–	4.35
027	Cariboo–Chilcotin	80	1.52	*	13	10.67	1.22		0.65	–	2.08
028	Quesnel	44	0.83		6	10.68	0.56		0.21	–	1.22
029	Lillooet	22	2.20	*	6	1.91	3.15	*	1.15	–	6.85
030	South Cariboo	34	1.75	*	3	4.02	0.75		0.15	–	2.18
031	Merritt	58	2.32	*	12	5.03	2.39	*	1.23	–	4.17
032	Hope	40	1.70	*	9	4.63	1.94		0.89	–	3.69
033	Chilliwack	150	0.88		32	34.64	0.92		0.63	–	1.30
034	Abbotsford	130	0.51	*	38	51.18	0.74		0.53	–	1.02
035	Langley	151	0.64	*	48	48.94	0.98		0.72	–	1.30
036	Surrey	529	0.73	*	107	149.23	0.72	*	0.59	–	0.87
037	Delta	143	0.68	*	31	42.56	0.73		0.49	–	1.03
038	Richmond	147	0.44	*	37	69.82	0.53	*	0.37	–	0.73
040	New Westminster	188	1.46	*	30	25.06	1.20		0.81	–	1.71
041	Burnaby	374	0.84	*	74	86.94	0.85		0.67	–	1.07
042	Maple Ridge	132	0.90		13	30.00	0.43	*	0.23	–	0.74
043	Coquitlam	250	0.75	*	69	68.53	1.01		0.78	–	1.27
044	North Vancouver	239	0.83	*	51	57.25	0.89		0.66	–	1.17
045	West Vancouver–Bowen Is.	93	0.61	*	20	30.84	0.65		0.40	–	1.00
046	Sunshine Coast	88	1.19		21	15.33	1.37		0.85	–	2.09
047	Powell River	88	1.62	*	13	10.96	1.19		0.63	–	2.03
048	Howe Sound	89	1.96	*	11	9.33	1.18		0.59	–	2.11
049	Bella Coola Valley	15	2.55	*	6	1.19	5.04	*	1.84	–	10.98
050	Queen Charlotte	30	2.99	*	6	1.96	3.07	*	1.12	–	6.67
051	Snow Country	2	1.22		–	0.33	–		–	–	–
052	Prince Rupert	69	2.08	*	12	6.10	1.97	*	1.02	–	3.44
053	Upper Skeena	24	2.54	*	3	1.83	1.64		0.33	–	4.78
054	Smithers	37	1.22		7	6.00	1.17		0.47	–	2.41
055/093	Burns Lake/Eutsuk	20	1.28		2	3.12	0.64		0.07	–	2.32
056	Nechako	37	1.16		10	6.32	1.58		0.76	–	2.91
057	Prince George	188	1.06		29	35.17	0.82		0.55	–	1.18
059	Peace River South	69	1.28		10	10.36	0.96		0.46	–	1.77
060	Peace River North	42	0.88		13	9.37	1.39		0.74	–	2.37
061	Greater Victoria	590	1.04		137	109.96	1.25	*	1.05	–	1.47
062	Sooke	97	0.90		23	21.62	1.06		0.67	–	1.60
063	Saanich	135	0.71	*	31	39.67	0.78		0.53	–	1.10
064	Gulf Islands	40	0.83		11	9.94	1.11		0.55	–	1.98
065	Cowichan	124	0.96		26	26.67	0.97		0.64	–	1.43
066	Lake Cowichan	14	0.91		1	3.15	0.32		0.00	–	1.77
067	Ladysmith	58	1.24		12	9.41	1.28		0.66	–	2.23
068	Nanaimo	227	1.02		55	46.01	1.20		0.90	–	1.56
069	Qualicum	90	0.69	*	22	28.20	0.78		0.49	–	1.18
070	Alberni	108	1.41	*	28	15.27	1.83	*	1.22	–	2.65
071	Courtenay	116	0.82	*	29	29.29	0.99		0.66	–	1.42
072/084	Campbell River/V.I. West	130	1.46	*	28	18.05	1.55	*	1.03	–	2.24
075	Mission	71	0.94		10	14.88	0.67		0.32	–	1.24
076	Agassiz–Harrison	19	1.00		3	3.87	0.78		0.16	–	2.27
077	Summerland	26	0.65	*	6	7.88	0.76		0.28	–	1.66
078	Enderby	28	1.41		8	4.01	2.00		0.86	–	3.93
080	Kitimat	26	1.13		5	4.57	1.10		0.35	–	2.56
081	Fort Nelson	5	0.63		1	1.50	0.67		0.01	–	3.72
083	Central Coast	16	4.78	*	3	0.67	4.45		0.89	–	13.00
085	Vancouver Island North	57	2.24	*	12	5.04	2.38	*	1.23	–	4.16
087/094	Stikine/Telegraph Creek	11	2.93	*	4	0.70	5.72	+	1.54	–	14.64
088	Terrace	60	1.51	*	10	7.90	1.27		0.61	–	2.33
092	Nishga	12	3.58	*	1	0.71	1.41		0.02	–	7.86
161	Vancouver City Centre	300	1.52	*	72	38.22	1.88	*	1.47	–	2.37
162	Vancouver Downtown E. Side	599	4.35	*	90	26.27	3.43	*	2.75	–	4.21
163	Vancouver North East	163	0.78	*	35	41.71	0.84		0.58	–	1.17
164	Vancouver West Side	178	0.64	*	26	53.19	0.49	*	0.32	–	0.72
165	Vancouver Midtown	227	1.25	*	35	35.08	1.00		0.69	–	1.39
166	Vancouver South	214	0.76	*	37	55.01	0.67	*	0.47	–	0.93
039	VANCOUVER TOTAL	1,709	1.33	*	297	249.49	1.19	*	1.06	–	1.33
	N.S.	13	–		–	–	–		–	–	–
	PROVINCIAL TOTAL	9,106	–		1,832	–	–		–	–	–

Note: *Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed).
+ Denotes significance based on less than five deaths. LHA 039 Vancouver Total may include unspecified Vancouver addresses.
N.S. – Not Stated. Non-residents are excluded.

STANDARDIZED MORTALITY RATIO BY LOCAL HEALTH AREA, ALCOHOL-RELATED DEATHS

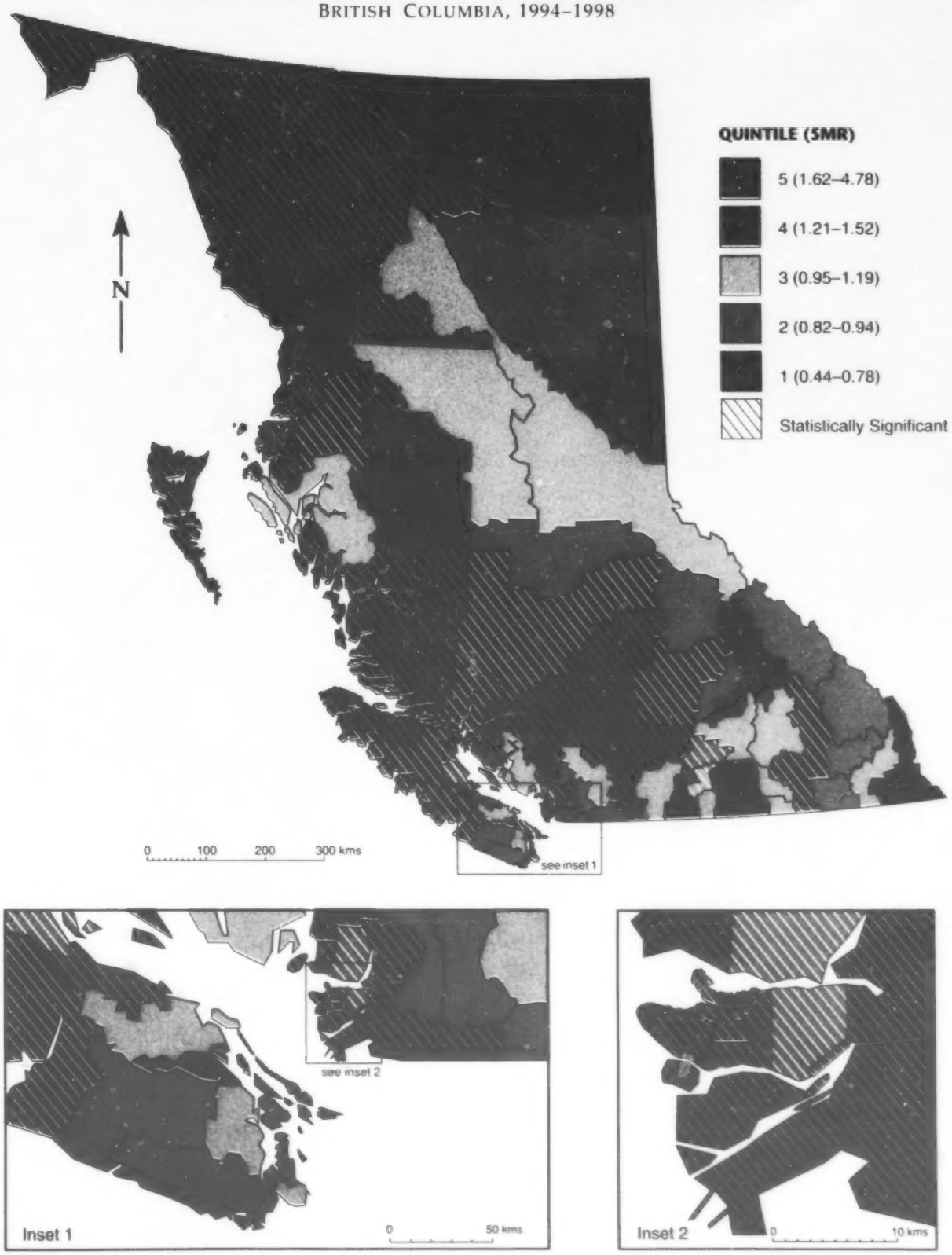
Local Health Area		1994–1998 Observed Deaths	1994–1998 SMR	(p)	1999 Observed Deaths	1999 Expected Deaths	1999 SMR	(p)	95% Confidence Interval Lower		Upper
001	Fernie	21	0.66		5	6.51	0.77		0.25	–	1.79
002	Cranbrook	53	0.95		9	11.41	0.79		0.36	–	1.50
003	Kimberley	23	0.90		8	5.03	1.59		0.69	–	3.14
004	Windermere	17	0.85		5	4.31	1.16		0.37	–	2.70
005	Creston	39	0.94		7	8.26	0.85		0.34	–	1.75
006/007	Kootenay Lake/Nelson	92	1.32	*	22	13.96	1.58		0.99	–	2.39
009	Castlegar	39	1.18		6	6.66	0.90		0.33	–	1.96
010	Arrow Lakes	15	1.03		5	2.93	1.70		0.55	–	3.98
011	Trail	56	0.97		12	11.21	1.07		0.55	–	1.87
012/013	Grand Forks/Kettle Valley	50	1.31		6	7.79	0.77		0.28	–	1.68
014	Southern Okanagan	69	1.00		15	14.19	1.06		0.59	–	1.74
015	Penticton	153	1.19	*	28	25.79	1.09		0.72	–	1.57
016	Keremeos	20	1.21		1	3.41	0.29		0.00	–	1.63
017	Princeton	15	1.01		3	3.09	0.97		0.20	–	2.84
018	Golden	12	0.82		1	2.91	0.34		0.00	–	1.91
019	Revelstoke	28	1.50		6	3.59	1.67		0.61	–	3.63
020	Salmon Arm	78	0.86		10	18.98	0.53	*	0.25	–	0.97
021	Armstrong–Spallumcheen	19	0.78		4	4.85	0.83		0.22	–	2.11
022	Vernon	173	1.12		33	31.38	1.05		0.72	–	1.48
023	Central Okanagan	344	0.88	*	76	80.87	0.94		0.74	–	1.18
024	Kamloops	329	1.44	*	54	46.89	1.15		0.86	–	1.50
025	100 Mile House	68	1.76	*	8	8.02	1.00		0.43	–	1.96
026	North Thompson	9	0.91		3	2.01	1.49		0.30	–	4.35
027	Cariboo–Chilcotin	80	1.52	*	13	10.67	1.22		0.65	–	2.08
028	Quesnel	44	0.83		6	10.68	0.56		0.21	–	1.22
029	Lillooet	22	2.20	*	6	1.91	3.15	*	1.15	–	6.85
030	South Cariboo	34	1.75	*	3	4.02	0.75		0.15	–	2.18
031	Merritt	58	2.32	*	12	5.03	2.39	*	1.23	–	4.17
032	Hope	40	1.70	*	9	4.63	1.94		0.89	–	3.69
033	Chilliwack	150	0.88		32	34.64	0.92		0.63	–	1.30
034	Abbotsford	130	0.51	*	38	51.18	0.74		0.53	–	1.02
035	Langley	151	0.64	*	48	48.94	0.98		0.72	–	1.30
036	Surrey	529	0.73	*	107	149.23	0.72	*	0.59	–	0.87
037	Delta	143	0.68	*	31	42.56	0.73		0.49	–	1.03
038	Richmond	147	0.44	*	37	69.82	0.53	*	0.37	–	0.73
040	New Westminster	188	1.46	*	30	25.06	1.20		0.81	–	1.71
041	Burnaby	374	0.84	*	74	86.94	0.85		0.67	–	1.07
042	Maple Ridge	132	0.90		13	30.00	0.43	*	0.23	–	0.74
043	Coquitlam	250	0.75	*	69	68.53	1.01		0.78	–	1.27
044	North Vancouver	239	0.83	*	51	57.25	0.89		0.66	–	1.17
045	West Vancouver–Bowen Is.	93	0.61	*	20	30.84	0.65		0.40	–	1.00
046	Sunshine Coast	88	1.19		21	15.33	1.37		0.85	–	2.09
047	Powell River	88	1.62	*	13	10.96	1.19		0.63	–	2.03
048	Howe Sound	89	1.96	*	11	9.33	1.18		0.59	–	2.11
049	Bella Coola Valley	15	2.55	*	6	1.19	5.04	*	1.84	–	10.98
050	Queen Charlotte	30	2.99	*	6	1.96	3.07	*	1.12	–	6.67
051	Snow Country	2	1.22		–	0.33	–		–	–	–
052	Prince Rupert	69	2.08	*	12	6.10	1.97	*	1.02	–	3.44
053	Upper Skeena	24	2.54	*	3	1.83	1.64		0.33	–	4.78
054	Smithers	37	1.22		7	6.00	1.17		0.47	–	2.41
055/093	Burns Lake/Eutsuk	20	1.28		2	3.12	0.64		0.07	–	2.32
056	Nechako	37	1.16		10	6.32	1.58		0.76	–	2.91
057	Prince George	188	1.06		29	35.17	0.82		0.55	–	1.18
059	Peace River South	69	1.28		10	10.36	0.96		0.46	–	1.77
060	Peace River North	42	0.88		13	9.37	1.39		0.74	–	2.37
061	Greater Victoria	590	1.04		137	109.96	1.25	*	1.05	–	1.47
062	Sooke	97	0.90		23	21.62	1.06		0.67	–	1.60
063	Saanich	135	0.71	*	31	39.87	0.78		0.53	–	1.10
064	Gulf Islands	40	0.83		11	9.94	1.11		0.55	–	1.98
065	Cowichan	124	0.96		26	26.67	0.97		0.64	–	1.43
066	Lake Cowichan	14	0.91		1	3.15	0.32		0.00	–	1.77
067	Ladysmith	58	1.24		12	9.41	1.28		0.66	–	2.23
068	Nanaimo	227	1.02		55	46.01	1.20		0.90	–	1.56
069	Qualicum	90	0.69	*	22	28.20	0.78		0.49	–	1.18
070	Alberni	108	1.41	*	28	15.27	1.83	*	1.22	–	2.65
071	Courtenay	116	0.82	*	29	29.29	0.99		0.66	–	1.42
072/084	Campbell River/V.I. West	130	1.46	*	28	18.05	1.55	*	1.03	–	2.24
075	Mission	71	0.94		10	14.88	0.67		0.32	–	1.24
076	Agassiz–Harrison	19	1.00		3	3.87	0.78		0.16	–	2.27
077	Summerland	26	0.65	*	6	7.88	0.76		0.28	–	1.66
078	Enderby	28	1.41		8	4.01	2.00		0.86	–	3.93
080	Kitimat	26	1.13		5	4.57	1.10		0.35	–	2.56
081	Fort Nelson	5	0.63		1	1.50	0.67		0.01	–	3.72
083	Central Coast	16	4.78	*	3	0.67	4.45		0.89	–	13.00
085	Vancouver Island North	57	2.24	*	12	5.04	2.38	*	1.23	–	4.16
087/094	Stikine/Telegraph Creek	11	2.93	*	4	0.70	5.72	+	1.54	–	14.64
088	Terrace	60	1.51	*	10	7.90	1.27		0.61	–	2.33
092	Nishga	12	3.58	*	1	0.71	1.41		0.02	–	7.86
161	Vancouver City Centre	300	1.52	*	72	38.22	1.88	*	1.47	–	2.37
162	Vancouver Downtown E. Side	599	4.35	*	90	26.27	3.43	*	2.75	–	4.21
163	Vancouver North East	163	0.78	*	35	41.71	0.84		0.58	–	1.17
164	Vancouver West Side	178	0.64	*	26	53.19	0.49	*	0.32	–	0.72
165	Vancouver Midtown	227	1.25	*	35	35.08	1.00		0.69	–	1.39
166	Vancouver South	214	0.76	*	37	55.01	0.67	*	0.47	–	0.93
039	**VANCOUVER TOTAL**	**1,709**	**1.33**	*	**297**	**249.49**	**1.19**	*	**1.06**	–	**1.33**
	N.S.	13	–		–	–	–		–	–	–
	PROVINCIAL TOTAL	**9,106**	**–**		**1,832**	**–**	**–**		**–**	**–**	**–**

Note: *Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed).
+ Denotes significance based on less than five deaths. LHA 039 Vancouver Total may include unspecified Vancouver addresses.
N.S. – Not Stated. Non-residents are excluded.

FIGURE 24

ALCOHOL-RELATED DEATHS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1994–1998



Note: SMR – Standardized Mortality Ratio. Refer to Figure 1 to clarify geographical location of Local Health Areas.

HIGHLIGHTS TO TABLE 41/FIGURE 24

- In 1999, there were 11 LHAs with statistically significant and high Standardized Mortality Ratios (SMRs) for alcohol-related deaths (based on at least five deaths). The ratios for the five highest (number of deaths in parentheses) were:

049	Bella Coola Valley	5.04	(6)
162	Vancouver Downtown E. Side	3.43	(90)
029	Lillooet	3.15	(6)
050	Queen Charlotte	3.07	(6)
031	Merritt	2.39	(12)

- All the above LHAs also had statistically significant and SMRs for alcohol-related deaths in 1994–1998.
- In 1999, the only LHA with no alcohol-related deaths was Snow Country.
- There were six LHAs with statistically significant and low SMRs for alcohol-related deaths (based on five or more deaths) in 1999. The ratios for these LHAs (number of deaths in parentheses) were:

042	Maple Ridge	0.43	(13)
164	Vancouver West Side	0.49	(26)
038	Richmond	0.53	(37)
020	Salmon Arm	0.53	(10)
166	Vancouver South	0.67	(37)
036	Surrey	0.72	(107)

- All of the above LHAs, with the exception of Maple Ridge and Salmon Arm, also had statistically significant and low SMRs for alcohol-related deaths in the five-year period from 1994 to 1998.
- In the 1994–1998 period, there were 26 LHAs with statistically significant and high SMRs (based on five or more deaths) for alcohol-related deaths. The five LHAs with the highest statistically significant SMRs (number of deaths in parentheses) were:

083	Central Coast	4.78	(16)
162	Vancouver Downtown E. Side	4.35	(599)
092	Nishga	3.58	(12)
050	Queen Charlotte	2.99	(30)
087/094	Stikine/Telegraph Creek	2.93	(11)

- In the 1994–1998 period, there were 17 LHAs with statistically significant and low SMRs for alcohol-related deaths. The five LHAs with the lowest statistically significant SMRs (number of deaths in parentheses) were:

038	Richmond	0.44	(147)
034	Abbotsford	0.51	(130)
045	West Vancouver–Bowen Is.	0.61	(93)
164	Vancouver West Side	0.64	(178)
035	Langley	0.64	(151)

M121

IMPORTANT NOTE CONCERNING THE FOLLOWING PAGES

THE PAGES WHICH FOLLOW HAVE BEEN FILMED TWICE IN ORDER TO OBTAIN THE BEST REPRODUCTIVE QUALITY

USERS SHOULD CONSULT ALL THE PAGES REPRODUCED ON THE FICHE IN ORDER TO OBTAIN A COMPLETE READING OF THE TEXT.

REMARQUE IMPORTANTE CONCERNANT LES PAGES QUI SUIVENT

LES PAGES SUIVANTES ONT ÉTÉ REPRODUITES EN DOUBLE AFIN D'AMÉLIORER LA QUALITÉ DE REPRODUCTION

LES UTILISATEURS DOIVENT CONSULTER TOUTES LES PAGES REPRODUITES SUR LA FICHE AFIN D'OBTENIR LA LECTURE DU TEXTE INTÉGRAL

micromedia
a division of IHS Canada

20 Victoria Street
Toronto, Ontario M5C 2N8
Tel.: (416) 362-5211
Toll Free: 1-800-387-2689
Fax: (416) 362-6161
Email: info@micromedia.on.ca

TABLE 42
SMOKING-ATTRIBUTABLE MORTALITY
BRITISH COLUMBIA, 1999

Diagnostic Category (ICD9 Code)	Male				Female				Total		
			SAM				SAM			SAM	
	Deaths	SAM (%)	Number	Percent	Deaths	SAM (%)	Number	Percent	Deaths	Number	Percent
Malignant Neoplasms											
Malignant neoplasm of lip, oral cavity, and pharynx (140–149)	83	91.2	76	2.1	39	59.9	23	1.1	122	99	1.7
Malignant neoplasm of esophagus (150)	142	78.2	111	3.1	50	71.0	36	1.6	192	147	2.6
Malignant neoplasm of pancreas (157)	219	21.7	48	1.3	200	33.9	68	3.1	419	116	2.0
Malignant neoplasm of larynx (161)	27	79.7	22	0.6	11	87.2	10	0.5	38	32	0.6
Malignant neoplasm of trachea, lung, and bronchus (162)	1,133	89.3	1,012	28.3	862	76.5	659	30.2	1,995	1,671	29.0
Malignant neoplasm of cervix, uterus (180)	–	–	–	–	45	33.9	15	0.7	45	15	0.3
Malignant neoplasm of urinary bladder (188)	142	44.8	64	1.8	61	37.6	23	1.1	203	87	1.5
Malignant neoplasm of kidney and other unspecified urinary organs (189)	119	46.8	56	1.6	68	12.4	8	0.4	187	64	1.1
SUBTOTAL	**1,865**		**1,389**	**38.8**	**1,336**		**842**	**38.6**	**3,201**	**2,231**	**38.7**
Diseases of the Circulatory System											
Hypertension (401–404)	88	24.6	22	0.6	116	16.4	19	0.9	204	41	0.7
Ischaemic heart disease (410–414):											
35–64 Years	445	43.2	192	5.4	104	36.5	38	1.7	549	230	4.0
65+ Years	2,343	21.1	494	13.8	1,921	14.6	280	12.8	4,264	774	13.4
Other heart diseases (390–398, 415–417, 420–429)	956	26.5	253	7.1	1,093	19.4	212	9.7	2,049	465	8.1
Cerebrovascular disease (430–438):											
35–64 Years	94	44.8	42	1.2	78	49.3	38	1.7	172	80	1.4
65+ Years	885	23.4	207	5.8	1,208	4.8	58	2.7	2,093	265	4.6
Atherosclerosis (440)	73	55.5	41	1.1	75	31.7	24	1.1	148	65	1.1
Aortic aneurysm (441)	145	55.5	80	2.2	108	31.7	34	1.6	253	114	2.0
Other arterial diseases (442–448)	75	55.5	42	1.2	71	31.7	23	1.1	146	65	1.1
SUBTOTAL	**5,104**		**1,373**	**38.4**	**4,774**		**726**	**33.2**	**9,878**	**2,099**	**36.4**
Diseases of the Respiratory System											
Pneumonia, influenza (480–487)	717	32.7	234	6.5	730	26.3	192	8.8	1,447	426	7.4
Bronchitis, emphysema (491–492)	90	84.7	76	2.1	80	79.2	63	2.9	170	139	2.4
Chronic obstructive pulmonary disease (496)	585	84.7	495	13.8	441	79.2	349	16.0	1,026	844	14.6
Other respiratory diseases (010–012,493)	35	32.7	11	0.3	39	26.3	10	0.5	74	21	0.4
SUBTOTAL	**1,427**		**816**	**22.8**	**1,290**		**614**	**28.1**	**2,717**	**1,430**	**24.8**
TOTAL	**8,396**		**3,578**	**100.0**	**7,400**		**2,184**	**100.0**	**15,796**	**5,762**	**100.0**

Note: Deaths are the total number of deaths aged 35+ years or as specified in the diagnostic category.
SAM – Smoking-attributable Mortality, derived by multiplying the SAM(%) by the number of deaths in each category.
SAM% updated in 1997 based on 1996 smoking prevalence survey.
See glossary under Smoking-attributable Mortality Percent for a definition of the formula for SAM(%).
Non-residents are excluded.

TABLE 42
SMOKING-ATTRIBUTABLE MORTALITY
BRITISH COLUMBIA, 1999

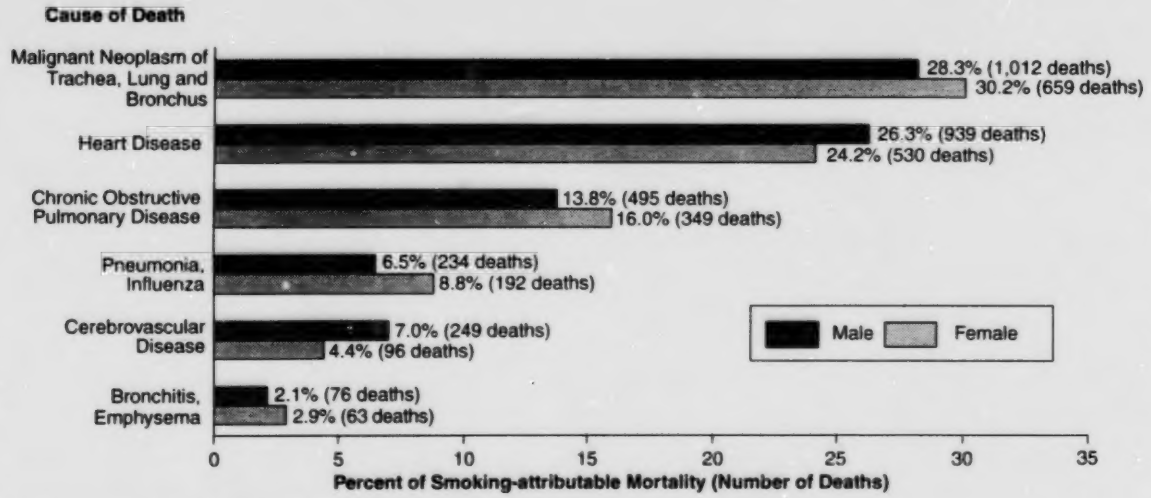
Diagnostic Category (ICD9 Code)	Male				Female				Total		
			SAM				SAM			SAM	
	Deaths	SAM (%)	Number	Percent	Deaths	SAM (%)	Number	Percent	Deaths	Number	Percent
Malignant Neoplasms											
Malignant neoplasm of lip, oral cavity, and pharynx (140–149)	83	91.2	76	2.1	39	59.9	23	1.1	122	99	1.7
Malignant neoplasm of esophagus (150)	142	78.2	111	3.1	50	71.0	36	1.6	192	147	2.6
Malignant neoplasm of pancreas (157)	219	21.7	48	1.3	200	33.9	68	3.1	419	116	2.0
Malignant neoplasm of larynx (161)	27	79.7	22	0.6	11	87.2	10	0.5	38	32	0.6
Malignant neoplasm of trachea, lung, and bronchus (162)	1,133	89.3	1,012	28.3	862	76.5	659	30.2	1,995	1,671	29.0
Malignant neoplasm of cervix, uterus (180)	–	–	–	–	45	33.9	15	0.7	45	15	0.3
Malignant neoplasm of urinary bladder (188)	142	44.8	64	1.8	61	37.6	23	1.1	203	87	1.5
Malignant neoplasm of kidney and other unspecified urinary organs (189)	119	46.8	56	1.6	68	12.4	8	0.4	187	64	1.1
SUBTOTAL	**1,865**		**1,389**	**38.8**	**1,336**		**842**	**38.6**	**3,201**	**2,231**	**38.7**
Diseases of the Circulatory System											
Hypertension (401–404)	88	24.6	22	0.6	116	16.4	19	0.9	204	41	0.7
Ischaemic heart disease (410–414):											
35–64 Years	445	43.2	192	5.4	104	36.5	38	1.7	549	230	4.0
65+ Years	2,343	21.1	494	13.8	1,921	14.6	280	12.8	4,264	774	13.4
Other heart diseases (390–398, 415–417, 420–429)	956	26.5	253	7.1	1,093	19.4	212	9.7	2,049	465	8.1
Cerebrovascular disease (430–438):											
35–64 Years	94	44.8	42	1.2	78	49.3	38	1.7	172	80	1.4
65+ Years	885	23.4	207	5.8	1,208	4.8	58	2.7	2,093	265	4.6
Atherosclerosis (440)	73	55.5	41	1.1	75	31.7	24	1.1	148	65	1.1
Aortic aneurysm (441)	145	55.5	80	2.2	108	31.7	34	1.6	253	114	2.0
Other arterial diseases (442–448)	75	55.5	42	1.2	71	31.7	23	1.1	146	65	1.1
SUBTOTAL	**5,104**		**1,373**	**38.4**	**4,774**		**726**	**33.2**	**9,878**	**2,099**	**36.4**
Diseases of the Respiratory System											
Pneumonia, influenza (480–487)	717	32.7	234	6.5	730	26.3	192	8.8	1,447	426	7.4
Bronchitis, emphysema (491–492)	90	84.7	76	2.1	80	79.2	63	2.9	170	139	2.4
Chronic obstructive pulmonary disease (496)	585	84.7	495	13.8	441	79.2	349	16.0	1,026	844	14.6
Other respiratory diseases (010–012,493)	35	32.7	11	0.3	39	26.3	10	0.5	74	21	0.4
SUBTOTAL	**1,427**		**816**	**22.8**	**1,290**		**614**	**28.1**	**2,717**	**1,430**	**24.8**
TOTAL	**8,396**		**3,578**	**100.0**	**7,400**		**2,184**	**100.0**	**15,796**	**5,762**	**100.0**

Note: Deaths are the total number of deaths aged 35+ years or as specified in the diagnostic category.
SAM – Smoking-attributable Mortality, derived by multiplying the SAM(%) by the number of deaths in each category.
SAM% updated in 1997 based on 1996 smoking prevalence survey.
See glossary under Smoking-attributable Mortality Percent for a definition of the formula for SAM(%).
Non-residents are excluded.

FIGURE 25

SMOKING-ATTRIBUTABLE MORTALITY BY SELECTED CAUSES AND GENDER

BRITISH COLUMBIA, 1999



Note: Heart disease includes ischaemic heart disease (35–64 years and 65+ years) and other heart diseases.
Cerebrovascular disease includes 35–64 years and 65+ years.

HIGHLIGHTS TO TABLE 42/FIGURE 25

- In 1999, there were 5,762 deaths that were attributed to smoking, 3,578 males and 2,184 females. Smoking-attributable mortality (SAM) is based on estimates of the relative exposure risk of the adult population (age 35 or older). A detailed definition of this term is provided in the Glossary under *Smoking-Attributable Mortality* (SAM). Table 42 presents, for each specific cause of death, the total number of deaths by gender, the proportion of these deaths which are attributed to smoking (labeled SAM%), and the number of SAM deaths.
- Smoking-attributable mortality can be grouped into deaths from cancers (malignant neoplasms), circulatory system diseases and respiratory system diseases. Out of every 100 smoking-attributable deaths in 1999:
  - 39 were from cancers (malignant neoplasms) (2,231)
  - 36 were from circulatory system diseases (2,099)
  - 25 were from respiratory system diseases (1,430)
- By specific causes of death, lung cancer (malignant neoplasms of trachea, lung, and bronchus) was the major contributor (1,671 deaths) to smoking-attributable mortality in 1999, followed by ischaemic heart disease (1,004) and chronic obstructive pulmonary disease (844). Together these three causes of death accounted for 3,519 deaths or 61.0% of smoking attributable mortality in the province in 1999.
- In 1999, three in five smoking-attributable deaths were males (3,578 males or 62.1%, and 2,184 females).

TABLE 43
DRUG-INDUCED DEATHS BY AGE AND GENDER
BRITISH COLUMBIA, 1999

Age	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
<15	–	–	–	–	–	–
15–19	4	1.5	1	0.9	5	1.3
20–24	18	6.6	5	4.4	23	6.0
25–44	151	55.5	56	49.6	207	53.8
45–64	83	30.5	34	30.1	117	30.4
65–84	15	5.5	13	11.5	28	7.3
85+	1	0.4	4	3.5	5	1.3
TOTAL	**272**	**100.0**	**113**	**100.0**	**385**	**100.0**

Note: Drug-induced deaths – ICD9 = 292, 304, 305.2–305.9, E850–E858, E930–E949, E950.0–E950.5, E962.0, E980.0–E980.5.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.

HIGHLIGHTS TO TABLE 43

- There were 385 deaths in the province from drug-induced causes in 1999. This grouping of underlying causes of death includes drug dependence, accidental drug poisonings, and suicides involving drugs.
- Seven out of every ten (70.6%) drug-induced deaths in 1999 were males (272), compared to 113 female deaths.
- Drug induced deaths occurred in every age group 15 years of age or older. More than half (53.8%) of the drug-induced deaths in the province occurred in the 25–44 age group (207 deaths); this was a significant cause of death in the 25–44 age group, accounting for one in six deaths (15.1%) from all 1,369 deaths in the age group (shown in Table 23).
- For males, 86.0% of drug-induced deaths were in the 25–44 and 45–64 age groups (234 deaths out of 272 deaths). Female drug-induced deaths were similarly concentrated in these age groups, and accounted for 79.7% or 90 out of 113 female deaths in this category.

TABLE 43
DRUG-INDUCED DEATHS BY AGE AND GENDER
BRITISH COLUMBIA, 1999

Age	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
<15	–	–	–	–	–	–
15–19	4	1.5	1	0.9	5	1.3
20–24	18	6.6	5	4.4	23	6.0
25–44	151	55.5	56	49.6	207	53.8
45–64	83	30.5	34	30.1	117	30.4
65–84	15	5.5	13	11.5	28	7.3
85+	1	0.4	4	3.5	5	1.3
TOTAL	**272**	**100.0**	**113**	**100.0**	**385**	**100.0**

Note: Drug-induced deaths – ICD9 = 292, 304, 305.2–305.9, E850–E858, E930–E949, E950.0–E950.5, E962.0, E980.0–E980.5.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.

HIGHLIGHTS TO TABLE 43

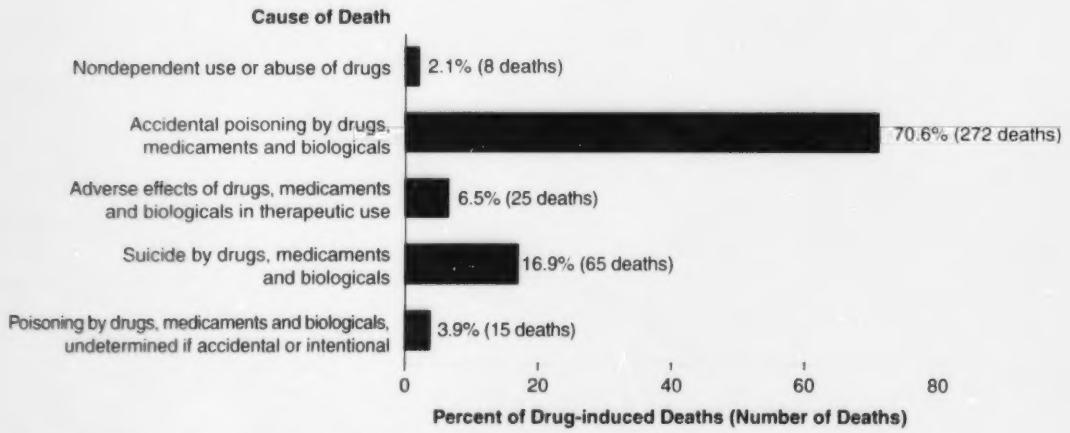
- There were 385 deaths in the province from drug-induced causes in 1999. This grouping of underlying causes of death includes drug dependence, accidental drug poisonings, and suicides involving drugs.
- Seven out of every ten (70.6%) drug-induced deaths in 1999 were males (272), compared to 113 female deaths.
- Drug induced deaths occurred in every age group 15 years of age or older. More than half (53.8%) of the drug-induced deaths in the province occurred in the 25–44 age group (207 deaths); this was a significant cause of death in the 25–44 age group, accounting for one in six deaths (15.1%) from all 1,369 deaths in the age group (shown in Table 23).
- For males, 86.0% of drug-induced deaths were in the 25–44 and 45–64 age groups (234 deaths out of 272 deaths). Female drug-induced deaths were similarly concentrated in these age groups, and accounted for 79.7% or 90 out of 113 female deaths in this category.

TABLE 44
DRUG-INDUCED DEATHS BY CAUSE
BRITISH COLUMBIA, 1994–1998 AND 1999

Cause of Death	ICD9 Code(s)	Year of Death: 1994–1998 Number	1994–1998 Percent	1999 Number	1999 Percent
Drug psychoses	292	–	–	–	–
Drug dependence	304	15	0.6	–	–
Nondependent use or abuse of drugs (excluding alcohol/tobacco)	305.2–305.9	37	1.5	8	2.1
Accidental poisoning by drugs, medicaments and biologicals	E850–E858	1,805	72.1	272	70.6
Adverse effects of drugs, medicaments and biologicals in therapeutic use	E930–E949	111	4.4	25	6.5
Suicide by drugs, medicaments and biologicals	E950.0–E950.5	479	19.1	65	16.9
Assault from poisoning by drugs and medicaments	E962.0	1	0.0	–	–
Poisoning by drugs, medicaments and biologicals, undetermined if accidental or intentional	E980.0–E980.5	54	2.2	15	3.9
TOTAL		**2,502**	**100.0**	**385**	**100.0**

Note: Total percentage may not add to 100 due to rounding.
Non-residents are excluded.

FIGURE 26
DRUG-INDUCED DEATHS BY CAUSE
BRITISH COLUMBIA, 1999



Note: See glossary for more details of definitions.
Non-residents are excluded.

HIGHLIGHTS TO TABLE 44/FIGURE 26

- There were 385 deaths in the province from drug-induced causes in 1999 and 2,502 drug-induced deaths in 1994–1998.
- Almost three quarters of drug-induced deaths in 1999 and 1994–1998 (70.6% and 72.1% respectively) were the result of accidental poisonings by drugs, medicaments and biologicals (272 deaths in 1999 and 1,805 deaths in 1994–1998).
- Approximately one fifth of the drug-induced deaths (19.1%) were the result of suicide by drugs, medicaments and biologicals in 1994–1998 (479 deaths). The proportion of suicides among drug-induced deaths (16.9%) was slightly lower in 1999 (65 deaths).
- Of all the 421 suicide deaths in B.C. in 1999 (presented in Table 30), 65 suicides, or approximately one in six suicide deaths (15.4%), were drug-induced.

VITAL STATISTICS INFORMATION BOX

BIRTHS BY MOTHER'S COUNTRY OF BIRTH AND DEATHS BY DECEDENT'S COUNTRY OF BIRTH

BRITISH COLUMBIA, 1999

Area	Province/Country	Births	Deaths
Canada	**Total**	**28,113**	**18,274**
	British Columbia	18,851	6,817
	Alberta	2,510	2,474
	Ontario	2,962	1,972
	Saskatchewan	1,024	3,566
	Manitoba	1,038	2,071
	Quebec	774	628
	Nova Scotia	339	338
	New Brunswick	184	205
	Newfoundland	263	94
	Yukon	93	23
	Prince Edward Island	28	52
	Northwest Territories	39	20
	Unknown Province	8	14
North and Central America	**Total (excluding Canada)**	**1,205**	**923**
	United States	763	867
	Other North and Central American Countries	442	56
South America	**Total**	**206**	**30**
Europe	**Total**	**2,262**	**6,397**
	England	689	2,127
	Scotland	99	755
	Other United Kingdom	104	212
	Germany	226	530
	Former USSR	130	429
	Scandanavian Countries	58	437
	Poland	147	318
	Italy	47	282
	Former Yugoslavia	168	130
	Other European Countries	594	1,177
Asia and the Middle East	**Total**	**8,583**	**1,793**
	India	2,705	403
	China	1,361	799
	Philippines	1,212	121
	Hong Kong	818	121
	Vietnam	659	58
	Taiwan	422	19
	Japan	257	60
	Korea	249	33
	Other Asian and Middle Eastern Countries	900	179
Africa	**Total**	**549**	**121**
Oceania	**Total**	**484**	**103**
	Fiji	318	51
	Other Oceanic Countries	166	52
Unknown		**631**	**153**
Total		**42,033**	**27,794**

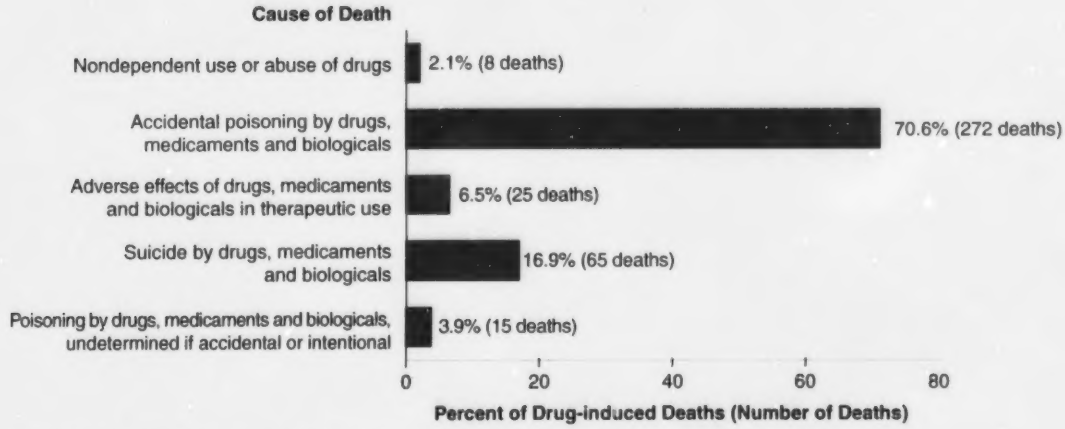
Note: Births include live births plus stillbirths. Non-residents are excluded.

TABLE 44
DRUG-INDUCED DEATHS BY CAUSE
BRITISH COLUMBIA, 1994–1998 AND 1999

Cause of Death	ICD9 Code(s)	Year of Death: 1994–1998 Number	1994–1998 Percent	1999 Number	1999 Percent
Drug psychoses	292	–	–	–	–
Drug dependence	304	15	0.6	–	–
Nondependent use or abuse of drugs (excluding alcohol/tobacco)	305.2–305.9	37	1.5	8	2.1
Accidental poisoning by drugs, medicaments and biologicals	E850–E858	1,805	72.1	272	70.6
Adverse effects of drugs, medicaments and biologicals in therapeutic use	E930–E949	111	4.4	25	6.5
Suicide by drugs, medicaments and biologicals	E950.0–E950.5	479	19.1	65	16.9
Assault from poisoning by drugs and medicaments	E962.0	1	0.0	–	–
Poisoning by drugs, medicaments and biologicals, undetermined if accidental or intentional	E980.0–E980.5	54	2.2	15	3.9
TOTAL		**2,502**	**100.0**	**385**	**100.0**

Note: Total percentage may not add to 100 due to rounding.
Non-residents are excluded.

FIGURE 26
DRUG-INDUCED DEATHS BY CAUSE
BRITISH COLUMBIA, 1999



Note: See glossary for more details of definitions.
Non-residents are excluded.

HIGHLIGHTS TO TABLE 44/FIGURE 26

- There were 385 deaths in the province from drug-induced causes in 1999 and 2,502 drug-induced deaths in 1994–1998.
- Almost three quarters of drug-induced deaths in 1999 and 1994–1998 (70.6% and 72.1% respectively) were the result of accidental poisonings by drugs, medicaments and biologicals (272 deaths in 1999 and 1,805 deaths in 1994–1998).
- Approximately one fifth of the drug-induced deaths (19.1%) were the result of suicide by drugs, medicaments and biologicals in 1994–1998 (479 deaths). The proportion of suicides among drug-induced deaths (16.9%) was slightly lower in 1999 (65 deaths).
- Of all the 421 suicide deaths in B.C. in 1999 (presented in Table 30), 65 suicides, or approximately one in six suicide deaths (15.4%), were drug-induced.

VITAL STATISTICS INFORMATION BOX

BIRTHS BY MOTHER'S COUNTRY OF BIRTH AND DEATHS BY DECEDENT'S COUNTRY OF BIRTH

BRITISH COLUMBIA, 1999

Area	Province/Country	Births	Deaths
Canada	**Total**	**28,113**	**18,274**
	British Columbia	18,851	6,817
	Alberta	2,510	2,474
	Ontario	2,962	1,972
	Saskatchewan	1,024	3,566
	Manitoba	1,038	2,071
	Quebec	774	628
	Nova Scotia	339	338
	New Brunswick	184	205
	Newfoundland	263	94
	Yukon	93	23
	Prince Edward Island	28	52
	Northwest Territories	39	20
	Unknown Province	8	14
North and Central America	**Total (excluding Canada)**	**1,205**	**923**
	United States	763	867
	Other North and Central American Countries	442	56
South America	**Total**	**206**	**30**
Europe	**Total**	**2,262**	**6,397**
	England	689	2,127
	Scotland	99	755
	Other United Kingdom	104	212
	Germany	226	530
	Former USSR	130	429
	Scandanavian Countries	58	437
	Poland	147	318
	Italy	47	282
	Former Yugoslavia	168	130
	Other European Countries	594	1,177
Asia and the Middle East	**Total**	**8,583**	**1,793**
	India	2,705	403
	China	1,361	799
	Philippines	1,212	121
	Hong Kong	818	121
	Vietnam	659	58
	Taiwan	422	19
	Japan	257	60
	Korea	249	33
	Other Asian and Middle Eastern Countries	900	179
Africa	**Total**	**549**	**121**
Oceania	**Total**	**484**	**103**
	Fiji	318	51
	Other Oceanic Countries	166	52
Unknown		**631**	**153**
Total		**42,033**	**27,794**

Note: Births include live births plus stillbirths. Non-residents are excluded.

TABLE

STANDARDIZED MORTALITY RATIO BY LOCAL HEALTH AREA
DRUG-INDUCED DEATHS

Local Health Area		1994–1998 Observed Deaths	1994–1998 SMR (p)	1999 Observed Deaths	1999 Expected Deaths	1999 SMR (p)	95% Confidence Interval Lower	95% Confidence Interval Upper
001	Fernie	–	–	–	1.61	–	–	–
002	Cranbrook	10	0.64	–	2.41	–	–	–
003	Kimberley	3	0.52	1	0.87	1.16	0.02 –	6.43
004	Windermere	2	0.37	–	0.90	–	–	–
005	Creston	6	0.83	–	1.11	–	–	–
006/007	Kootenay Lake/Nelson	8	0.44 *	2	2.76	0.73	0.08 –	2.62
009	Castlegar	6	0.71	2	1.29	1.55	0.17 –	5.61
010	Arrow Lakes	1	0.31	–	0.50	–	–	–
011	Trail	9	0.68	2	1.95	1.03	0.12 –	3.71
012/013	Grand Forks/Kettle Valley	7	0.89	–	1.21	–	–	–
014	Southern Okanagan	4	0.39 +	–	1.62	–	–	–
015	Penticton	14	0.59 *	5	3.62	1.38	0.44 –	3.22
016	Keremeos	1	0.37	–	0.42	–	–	–
017	Princeton	3	0.94	–	0.49	–	–	–
018	Golden	–	–	–	0.76	–	–	–
019	Revelstoke	2	0.34	–	0.83	–	–	–
020	Salmon Arm	11	0.60	1	2.97	0.34	0.00 –	1.88
021	Armstrong–Spallumcheen	1	0.17 +	–	0.90	–	–	–
022	Vernon	32	0.92	3	5.33	0.56	0.11 –	1.65
023	Central Okanagan	45	0.51 *	11	13.88	0.79	0.40 –	1.42
024	Kamloops	80	1.27 *	10	9.87	1.01	0.49 –	1.86
025	100 Mile House	11	1.17	2	1.50	1.33	0.15 –	4.80
026	North Thompson	2	0.62	–	0.49	–	–	–
027	Cariboo–Chilcotin	7	0.39 *	2	2.73	0.73	0.08 –	2.64
028	Quesnel	7	0.43 *	2	2.52	0.79	0.09 –	2.86
029	Lillooet	2	0.65	–	0.45	–	–	–
030	South Cariboo	2	0.43	1	0.71	1.40	0.02 –	7.81
031	Merritt	11	1.55	3	1.09	2.75	0.55 –	8.04
032	Hope	8	1.59	–	0.74	–	–	–
033	Chilliwack	43	1.05	8	6.32	1.26	0.54 –	2.49
034	Abbotsford	49	0.74 *	11	10.24	1.07	0.54 –	1.92
035	Langley	36	0.53 *	12	10.52	1.14	0.59 –	1.99
036	Surrey	191	0.90	48	32.74	1.47 *	1.08 –	1.94
037	Delta	30	0.48 *	1	9.52	0.11 +	0.00 –	0.58
038	Richmond	51	0.51 *	3	15.92	0.19 +	0.04 –	0.55
040	New Westminster	85	2.28 *	13	5.76	2.26 *	1.20 –	3.86
041	Burnaby	109	0.87	12	19.01	0.63	0.33 –	1.10
042	Maple Ridge	20	0.43 *	7	7.26	0.96	0.39 –	1.99
043	Coquitlam	70	0.59 *	11	18.37	0.60	0.30 –	1.07
044	North Vancouver	63	0.74 *	8	12.78	0.63	0.27 –	1.23
045	West Vancouver–Bowen Is.	21	0.72	2	4.49	0.45	0.05 –	1.61
046	Sunshine Coast	13	0.81	3	2.49	1.20	0.24 –	3.51
047	Powell River	14	1.11	–	1.92	–	–	–
048	Howe Sound	10	0.51 *	3	3.22	0.93	0.19 –	2.72
049	Bella Coola Valley	1	0.49	–	0.32	–	–	–
050	Queen Charlotte	3	0.76	1	0.59	1.69	0.02 –	9.40
051	Snow Country	2	3.07	–	0.08	–	–	–
052	Prince Rupert	12	0.97	1	1.77	0.57	0.01 –	3.15
053	Upper Skeena	3	0.84	–	0.55	–	–	–
054	Smithers	1	0.09 +	–	1.77	–	–	–
055/093	Burns Lake/Eutsuk	5	1.09	–	0.70	–	–	–
056	Nechako	3	0.28 +	–	1.66	–	–	–
057	Prince George	47	0.70 *	7	10.14	0.69	0.28 –	1.42
059	Peace River South	7	0.38 *	1	2.68	0.37	0.00 –	2.08
060	Peace River North	10	0.56	–	2.80	–	–	–
061	Greater Victoria	174	1.28 *	43	20.17	2.13 *	1.54 –	2.87
062	Sooke	21	0.62 *	1	5.21	0.19	0.00 –	1.07
063	Saanich	17	0.47 *	3	5.55	0.54	0.11 –	1.58
064	Gulf Islands	2	0.24 +	1	1.32	0.76	0.01 –	4.21
065	Cowichan	19	0.61 *	–	4.86	–	–	–
066	Lake Cowichan	3	0.76	–	0.61	–	–	–
067	Ladysmith	12	1.23	–	1.45	–	–	–
068	Nanaimo	71	1.26	11	8.72	1.26	0.63 –	2.26
069	Qualicum	13	0.58 *	–	3.59	–	–	–
070	Alberni	26	1.27	2	3.09	0.65	0.07 –	2.34
071	Courtenay	35	0.99	7	5.51	1.27	0.51 –	2.62
072/084	Campbell River/V.I. West	32	1.11	3	4.35	0.69	0.14 –	2.02
075	Mission	28	1.22	1	3.47	0.29	0.00 –	1.60
076	Agassiz–Harrison	5	0.97	–	0.82	–	–	–
077	Summerland	5	0.76	1	1.01	0.99	0.01 –	5.53
078	Enderby	4	0.92	1	0.70	1.42	0.02 –	7.91
080	Kitimat	4	0.48	2	1.20	1.66	0.19 –	6.01
081	Fort Nelson	2	0.49	–	0.63	–	–	–
083	Central Coast	2	1.68	–	0.19	–	–	–
085	Vancouver Island North	8	0.79	4	1.48	2.70	0.73 –	6.92
087/094	Stikine/Telegraph Creek	–	–	–	0.18	–	–	–
088	Terrace	8	0.55	1	2.19	0.46	0.01 –	2.54
092	Nishga	2	1.66	–	0.20	–	–	–
161	Vancouver City Centre	163	2.29 *	26	11.49	2.26 *	1.48 –	3.32
162	Vancouver Downtown E. Side	330	8.28 *	38	6.06	6.27 *	4.44 –	8.60
163	Vancouver North East	81	1.34 *	14	9.23	1.52	0.83 –	2.55
164	Vancouver West Side	47	0.58 *	8	12.24	0.65	0.28 –	1.29
165	Vancouver Midtown	96	1.62 *	12	8.89	1.35	0.70 –	2.36
166	Vancouver South	71	0.94	6	11.45	0.52	0.19 –	1.14
039	**VANCOUVER TOTAL**	**807**	**2.08 ***	**105**	**59.35**	**1.77 ***	**1.45 –**	**2.14**
	N.S.	8	–	–	–	–	–	–
	PROVINCIAL TOTAL	**2,502**	**–**	**385**	**–**	**–**	**– –**	**–**

Note: * Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed).
+ Denotes significance based on less than five deaths. LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not Stated. Non-residents are excluded.

STANDARDIZED MORTALITY RATIO BY LOCAL HEALTH AREA
DRUG-INDUCED DEATHS

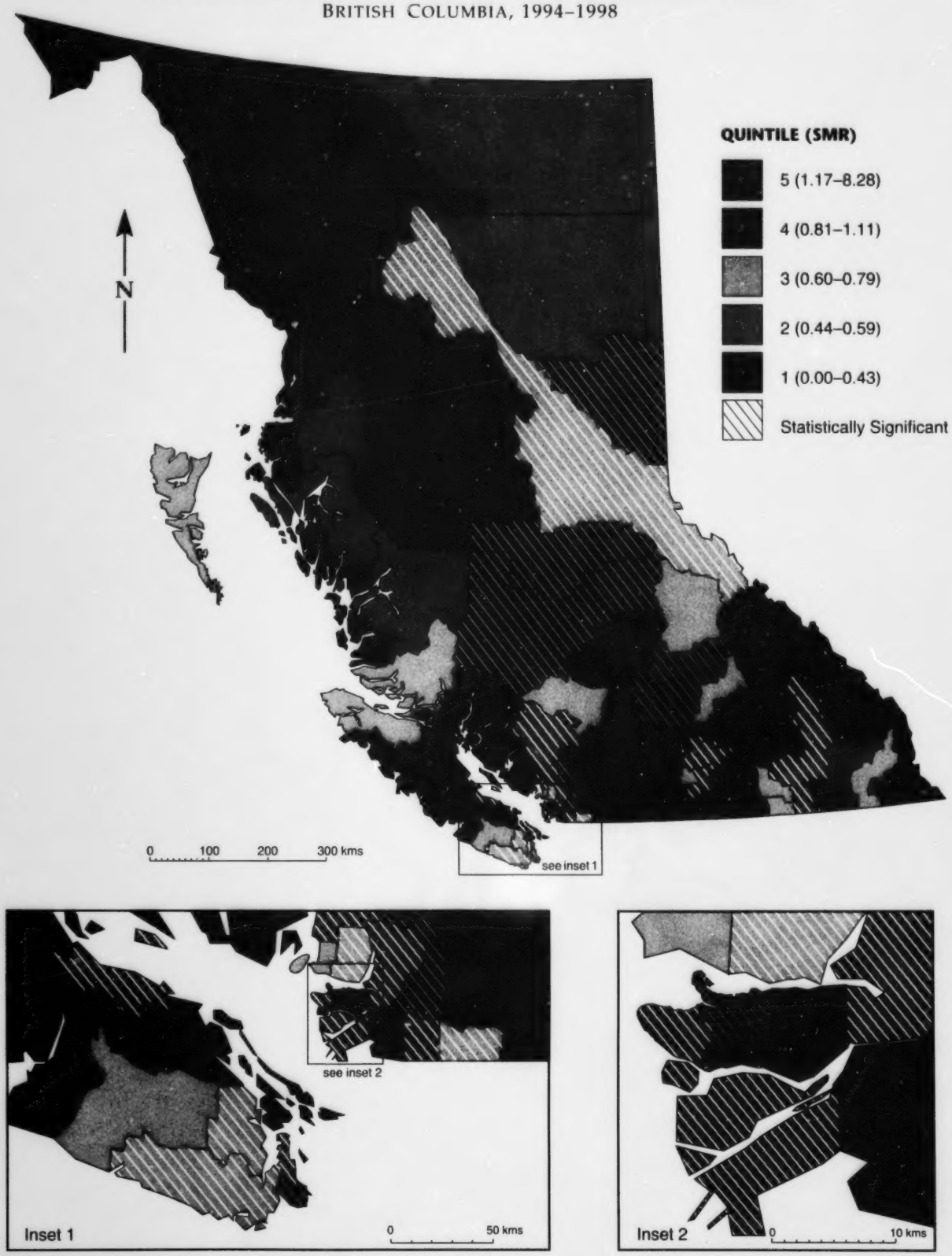
		1994–1998			1999				
		Observed			Observed	Expected		95% Confidence Interval	
	Local Health Area	Deaths	SMR	(p)	Deaths	Deaths	SMR (p)	Lower	Upper
001	Fernie	–	–		–	1.61	–	– –	–
002	Cranbrook	10	0.64		–	2.41	–	– –	–
003	Kimberley	3	0.52		1	0.87	1.16	0.02 –	6.43
004	Windermere	2	0.37		–	0.90	–	– –	–
005	Creston	6	0.83		–	1.11	–	– –	–
006/007	Kootenay Lake/Nelson	8	0.44	*	2	2.76	0.73	0.08 –	2.62
009	Castlegar	6	0.71		2	1.29	1.55	0.17 –	5.61
010	Arrow Lakes	1	0.31		–	0.50	–	– –	–
011	Trail	9	0.68		2	1.95	1.03	0.12 –	3.71
012/013	Grand Forks/Kettle Valley	7	0.89		–	1.21	–	– –	–
014	Southern Okanagan	4	0.39	+	–	1.62	–	– –	–
015	Penticton	14	0.59	*	5	3.62	1.38	0.44 –	3.22
016	Keremeos	1	0.37		–	0.42	–	– –	–
017	Princeton	3	0.94		–	0.49	–	– –	–
018	Golden	–	–		–	0.76	–	– –	–
019	Revelstoke	2	0.34		–	0.83	–	– –	–
020	Salmon Arm	11	0.60		1	2.97	0.34	0.00 –	1.88
021	Armstrong–Spallumcheen	1	0.17	+	–	0.90	–	– –	–
022	Vernon	32	0.92		3	5.33	0.56	0.11 –	1.65
023	Central Okanagan	45	0.51	*	11	13.88	0.79	0.40 –	1.42
024	Kamloops	80	1.27	*	10	9.87	1.01	0.49 –	1.86
025	100 Mile House	11	1.17		2	1.50	1.33	0.15 –	4.80
026	North Thompson	2	0.62		–	0.49	–	– –	–
027	Cariboo–Chilcotin	7	0.39	*	2	2.73	0.73	0.08 –	2.64
028	Quesnel	7	0.43	*	2	2.52	0.79	0.09 –	2.86
029	Lillooet	2	0.65		–	0.45	–	– –	–
030	South Cariboo	2	0.43		1	0.71	1.40	0.02 –	7.81
031	Merritt	11	1.55		3	1.09	2.75	0.55 –	8.04
032	Hope	8	1.59		–	0.74	–	– –	–
033	Chilliwack	43	1.05		8	6.32	1.26	0.54 –	2.49
034	Abbotsford	49	0.74	*	11	10.24	1.07	0.54 –	1.92
035	Langley	36	0.53	*	12	10.52	1.14	0.59 –	1.99
036	Surrey	191	0.90		48	32.74	1.47 *	1.08 –	1.94
037	Delta	30	0.48	*	1	9.52	0.11 +	0.00 –	0.58
038	Richmond	51	0.51	*	3	15.92	0.19 +	0.04 –	0.55
040	New Westminster	85	2.26	*	13	5.76	2.26 *	1.20 –	3.86
041	Burnaby	109	0.87		12	19.01	0.63	0.33 –	1.10
042	Maple Ridge	20	0.43	*	7	7.26	0.96	0.39 –	1.99
043	Coquitlam	70	0.59	*	11	18.37	0.60	0.30 –	1.07
044	North Vancouver	63	0.74	*	8	12.78	0.63	0.27 –	1.23
045	West Vancouver–Bowen Is.	21	0.72		2	4.49	0.45	0.05 –	1.61
046	Sunshine Coast	13	0.81		3	2.49	1.20	0.24 –	3.51
047	Powell River	14	1.11		–	1.92	–	– –	–
048	Howe Sound	10	0.51	*	3	3.22	0.93	0.19 –	2.72
049	Bella Coola Valley	1	0.49		–	0.32	–	– –	–
050	Queen Charlotte	3	0.76		1	0.59	1.69	0.02 –	9.40
051	Snow Country	2	3.07		–	0.08	–	– –	–
052	Prince Rupert	12	0.97		1	1.77	0.57	0.01 –	3.15
053	Upper Skeena	3	0.84		–	0.55	–	– –	–
054	Smithers	1	0.09	+	–	1.77	–	– –	–
055/093	Burns Lake/Eutsuk	5	1.09		–	0.70	–	– –	–
056	Nechako	3	0.28	+	–	1.66	–	– –	–
057	Prince George	47	0.70	*	7	10.14	0.69	0.28 –	1.42
059	Peace River South	7	0.38	*	1	2.68	0.37	0.00 –	2.08
060	Peace River North	10	0.56		–	2.80	–	– –	–
061	Greater Victoria	174	1.28	*	43	20.17	2.13 *	1.54 –	2.87
062	Sooke	21	0.62	*	1	5.21	0.19	0.00 –	1.07
063	Saanich	17	0.47	*	3	5.55	0.54	0.11 –	1.58
064	Gulf Islands	2	0.24	+	1	1.32	0.76	0.01 –	4.21
065	Cowichan	19	0.61	*	–	4.86	–	– –	–
066	Lake Cowichan	3	0.76		–	0.61	–	– –	–
067	Ladysmith	12	1.23		–	1.45	–	– –	–
068	Nanaimo	71	1.26		11	8.72	1.26	0.63 –	2.26
069	Qualicum	13	0.58	*	–	3.59	–	– –	–
070	Alberni	26	1.27		2	3.09	0.65	0.07 –	2.34
071	Courtenay	35	0.99		7	5.51	1.27	0.51 –	2.62
072/084	Campbell River/V.I. West	32	1.11		3	4.35	0.69	0.14 –	2.02
075	Mission	28	1.22		1	3.47	0.29	0.00 –	1.60
076	Agassiz–Harrison	5	0.97		–	0.82	–	– –	–
077	Summerland	5	0.76		1	1.01	0.99	0.01 –	5.53
078	Enderby	4	0.92		1	0.70	1.42	0.02 –	7.91
080	Kitimat	4	0.48		2	1.20	1.66	0.19 –	6.01
081	Fort Nelson	2	0.49		–	0.63	–	– –	–
083	Central Coast	2	1.68		–	0.19	–	– –	–
085	Vancouver Island North	8	0.79		4	1.48	2.70	0.73 –	6.92
087/094	Stikine/Telegraph Creek	–	–		–	0.18	–	– –	–
088	Terrace	8	0.55		1	2.19	0.46	0.01 –	2.54
092	Nishga	2	1.66		–	0.20	–	– –	–
161	Vancouver City Centre	163	2.29	*	26	11.49	2.26 *	1.48 –	3.32
162	Vancouver Downtown E. Side	330	8.28	*	38	6.06	6.27 *	4.44 –	8.60
163	Vancouver North East	81	1.34	*	14	9.23	1.52	0.83 –	2.55
164	Vancouver West Side	47	0.58	*	8	12.24	0.65	0.28 –	1.29
165	Vancouver Midtown	96	1.62	*	12	8.89	1.35	0.70 –	2.36
166	Vancouver South	71	0.94		6	11.45	0.52	0.19 –	1.14
039	**VANCOUVER TOTAL**	807	2.08	*	105	59.35	1.77 *	1.45 –	2.14
	N.S.	8	–		–	–	–	– –	–
	PROVINCIAL TOTAL	2,502	–		385	–	–	– –	–

Note: * Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed).
+ Denotes significance based on less than five deaths. LHA 039 Vancouver Total may include unspecified Vancouver addresses. N.S. – Not Stated. Non-residents are excluded.

FIGURE 27

DRUG-INDUCED DEATHS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 1994–1998



Note: SMR – Standardized Mortality Ratio. Refer to Figure 1 to clarify geographical location of Local Health Areas.

HIGHLIGHTS TO TABLE 45/FIGURE 27

- In 1999, there were five Local Health Areas (LHAs) with statistically significant and high Standardized Mortality Ratios (SMR) for drug-induced deaths. These five LHAs and their SMRs for drug-induced deaths in 1999 (number of drug-induced deaths in parentheses) were:

162	Vancouver Downtown E. Side	6.27	(38)
161	Vancouver City Centre	2.26	(26)
040	New Westminster	2.26	(13)
061	Greater Victoria	2.13	(43)
036	Surrey	1.47	(48)

- All of these LHAs, with the exception of Surrey, also had statistically significant and high SMRs in the five-year period from 1994 to 1998.
- In 1999, 32 LHAs had no drug-induced deaths and there were no LHAs with statistically significant and low SMRs (based on five or more deaths).
- There were seven LHAs with statistically significant and high SMRs in the 1994–1998 period. The SMRs for these LHAs (number of drug-induced deaths in parentheses) were:

162	Vancouver Downtown E. Side	8.28	(330)
161	Vancouver City Centre	2.29	(163)
040	New Westminster	2.28	(85)
165	Vancouver Midtown	1.62	(96)
163	Vancouver North East	1.34	(81)
061	Greater Victoria	1.28	(174)
024	Kamloops	1.27	(80)

- In the 1994–1998 period, 20 LHAs had statistically significant and low SMRs (based on five or more drug-related deaths). The five LHAs with the lowest SMRs (number of drug-induced deaths in parentheses) were:

059	Peace River South	0.38	(7)
027	Cariboo–Chilcotin	0.39	(7)
042	Maple Ridge	0.43	(20)
028	Quesnel	0.43	(7)
006/007	Kootenay Lake/Nelson	0.44	(8)

- Three LHAs had no drug-induced deaths in the 1994–1998 period. These were Fernie, Golden and Stikine/Telegraph Creek. They also had no drug-induced deaths in 1999.

VITAL STATISTICS INFORMATION BOX

METHOD OF DISPOSITION BY DECEDENT'S LOCAL HEALTH AREA OF RESIDENCE

BRITISH COLUMBIA, 1999

Local Health Area		Burial		Cremation		Other	Total
		Number	Percent	Number	Percent		
001	Fernie	24	33.8	47	66.2	–	71
002	Cranbrook	43	26.1	120	72.7	2	165
003	Kimberley	14	15.9	74	84.1	–	88
004	Windermere	12	20.7	46	79.3	–	58
005	Creston	45	32.6	93	67.4	–	138
006/007	Kootenay Lake/Nelson	60	28.7	148	70.8	1	209
009	Castlegar	37	38.1	59	60.8	1	97
010	Arrow Lakes	9	18.0	40	80.0	1	50
011	Trail	25	14.0	150	84.3	3	178
012/013	Grand Forks/Kettle Valley	33	33.0	67	67.0	–	100
014	Southern Okanagan	48	19.9	192	79.7	1	241
015	Penticton	90	20.1	358	79.9	–	448
016	Keremeos	10	22.2	35	77.8	–	45
017	Princeton	8	15.1	45	84.9	–	53
018	Golden	6	20.0	24	80.0	–	30
019	Revelstoke	18	29.0	43	69.4	1	62
020	Salmon Arm	51	18.6	223	81.4	–	274
021	Armstrong–Spallumcheen	26	35.1	47	63.5	1	74
022	Vernon	149	28.0	383	72.0	–	532
023	Central Okanagan	327	26.6	899	73.1	4	1,230
024	Kamloops	141	20.4	538	77.7	13	692
025	100 Mile House	24	21.1	90	78.9	–	114
026	North Thompson	5	20.8	19	79.2	–	24
027	Cariboo–Chilcotin	55	39.0	85	60.3	1	141
028	Quesnel	38	27.9	97	71.3	1	136
029	Lillooet	15	40.5	22	59.5	–	37
030	South Cariboo	12	26.7	33	73.3	–	45
031	Merritt	32	39.0	50	61.0	–	82
032	Hope	19	24.1	60	75.9	–	79
033	Chilliwack	184	30.6	416	69.1	2	602
034	Abbotsford	325	40.3	479	59.4	2	806
035	Langley	184	25.4	537	74.1	4	725
036	Surrey	478	22.8	1,611	76.7	11	2,100
037	Delta	112	21.1	418	78.7	1	531
038	Richmond	223	27.5	581	71.6	7	811
040	New Westminster	108	20.8	408	78.5	4	520
041	Burnaby	350	27.1	920	71.3	20	1,290
042	Maple Ridge	87	19.2	364	80.5	1	452
043	Coquitlam	213	24.3	660	75.4	2	875
044	North Vancouver	140	17.5	656	81.9	5	801
045	West Vancouver–Bowen Is.	64	15.4	351	84.4	1	416
046	Sunshine Coast	40	17.0	195	83.0	–	235
047	Powell River	32	19.6	125	76.7	6	163
048	Howe Sound	23	20.4	89	78.8	1	113
049	Bella Coola Valley	13	68.4	5	26.3	1	19
050	Queen Charlotte	19	63.3	11	36.7	–	30
051	Snow Country	–	–	3	100.0	–	3
052	Prince Rupert	33	36.7	57	63.3	–	90
053	Upper Skeena	13	59.1	9	40.9	–	22
054	Smithers	32	39.5	49	60.5	–	81
055/093	Burns Lake/Eutsuk	27	54.0	22	44.0	1	50
056	Nechako	43	51.2	41	48.8	–	84
057	Prince George	162	34.3	309	65.5	1	472
059	Peace River South	57	39.6	87	60.4	–	144
060	Peace River North	44	41.1	63	58.9	–	107
061	Greater Victoria	377	16.3	1,928	83.2	11	2,316
062	Sooke	51	18.1	230	81.9	–	281
063	Saanich	85	14.4	505	85.4	1	591
064	Gulf Islands	19	14.0	116	85.3	1	136
065	Cowichan	77	19.8	310	79.9	1	388
066	Lake Cowichan	4	11.1	32	88.9	–	36
067	Ladysmith	20	11.0	162	89.0	–	182
068	Nanaimo	123	17.2	591	82.4	3	717
069	Qualicum	46	11.0	374	89.0	–	420
070	Alberni	53	22.9	178	77.1	–	231
071	Courtenay	63	14.6	369	85.4	–	432
072/084	Campbell River/V.I. West	39	17.0	190	83.0	–	229
075	Mission	46	18.3	205	81.3	1	252
076	Agassiz–Harrison	15	23.8	48	76.2	–	63
077	Summerland	34	21.9	121	78.1	–	155
078	Enderby	24	36.9	41	63.1	–	65
080	Kitimat	27	51.9	25	48.1	–	52
081	Fort Nelson	8	50.0	8	50.0	–	16
083	Central Coast	8	61.5	4	30.8	1	13
085	Vancouver Island North	22	34.9	40	63.5	1	63
087/094	Stikine/Telegraph Creek	14	87.5	1	6.3	1	16
088	Terrace	47	39.2	73	60.8	–	120
092	Nishga	10	90.9	1	9.1	–	11
161	Vancouver City Centre	148	22.0	516	76.8	8	672
162	Vancouver Downtown E. Side	261	44.1	313	52.9	18	592
163	Vancouver North East	253	43.3	307	52.6	24	584
164	Vancouver West Side	201	24.2	622	75.0	6	829
165	Vancouver Midtown	218	46.1	248	52.4	7	473
166	Vancouver South	349	42.7	460	56.3	8	817
039	**VANCOUVER TOTAL**	1,433	25.3	2,488	74.0	71	3,973
	N.S.	1	–	–	–	–	1
	PROVINCIAL TOTAL	7,028	25.3	20,574	74.0	192	27,794

VITAL STATISTICS INFORMATION BOX

METHOD OF DISPOSITION BY DECEDENT'S LOCAL HEALTH AREA OF RESIDENCE

BRITISH COLUMBIA, 1999

Local Health Area		Burial		Cremation		Other	Total
		Number	Percent	Number	Percent		
001	Fernie	24	33.8	47	66.2	–	71
002	Cranbrook	43	26.1	120	72.7	2	165
003	Kimberley	14	15.9	74	84.1	–	88
004	Windermere	12	20.7	46	79.3	–	58
005	Creston	45	32.6	93	67.4	–	138
006/007	Kootenay Lake/Nelson	60	28.7	148	70.8	1	209
009	Castlegar	37	38.1	59	60.8	1	97
010	Arrow Lakes	9	18.0	40	80.0	1	50
011	Trail	25	14.0	150	84.3	3	178
012/013	Grand Forks/Kettle Valley	33	33.0	67	67.0	–	100
014	Southern Okanagan	48	19.9	192	79.7	1	241
015	Penticton	90	20.1	358	79.9	–	448
016	Keremeos	10	22.2	35	77.8	–	45
017	Princeton	8	15.1	45	84.9	–	53
018	Golden	6	20.0	24	80.0	–	30
019	Revelstoke	18	29.0	43	69.4	1	62
020	Salmon Arm	51	18.6	223	81.4	–	274
021	Armstrong–Spallumcheen	26	35.1	47	63.5	1	74
022	Vernon	149	28.0	383	72.0	–	532
023	Central Okanagan	327	26.6	899	73.1	4	1,230
024	Kamloops	141	20.4	538	77.7	13	692
025	100 Mile House	24	21.1	90	78.9	–	114
026	North Thompson	5	20.8	19	79.2	–	24
027	Cariboo–Chilcotin	55	39.0	85	60.3	1	141
028	Quesnel	38	27.9	97	71.3	1	136
029	Lillooet	15	40.5	22	59.5	–	37
030	South Cariboo	12	26.7	33	73.3	–	45
031	Merritt	32	39.0	50	61.0	–	82
032	Hope	19	24.1	60	75.9	–	79
033	Chilliwack	184	30.6	416	69.1	2	602
034	Abbotsford	325	40.3	479	59.4	2	806
035	Langley	184	25.4	537	74.1	4	725
036	Surrey	478	22.8	1,611	76.7	11	2,100
037	Delta	112	21.1	418	78.7	1	531
038	Richmond	223	27.5	581	71.6	7	811
040	New Westminster	108	20.8	408	78.5	4	520
041	Burnaby	350	27.1	920	71.3	20	1,290
042	Maple Ridge	87	19.2	364	80.5	1	452
043	Coquitlam	213	24.3	660	75.4	2	875
044	North Vancouver	140	17.5	656	81.9	5	801
045	West Vancouver–Bowen Is	64	15.4	351	84.4	1	416
046	Sunshine Coast	40	17.0	195	83.0	–	235
047	Powell River	32	19.6	125	76.7	6	163
048	Howe Sound	23	20.4	89	78.8	1	113
049	Bella Coola Valley	13	68.4	5	26.3	1	19
050	Queen Charlotte	19	63.3	11	36.7	–	30
051	Snow Country	–	–	3	100.0	–	3
052	Prince Rupert	33	36.7	57	63.3	–	90
053	Upper Skeena	13	59.1	9	40.9	–	22
054	Smithers	32	39.5	49	60.5	–	81
055/093	Burns Lake/Eutsuk	27	54.0	22	44.0	1	50
056	Nechako	43	51.2	41	48.8	–	84
057	Prince George	162	34.3	309	65.5	1	472
059	Peace River South	57	39.6	87	60.4	–	144
060	Peace River North	44	41.1	63	58.9	–	107
061	Greater Victoria	377	16.3	1,928	83.2	11	2,316
062	Sooke	51	18.1	230	81.9	–	281
063	Saanich	85	14.4	505	85.4	1	591
064	Gulf Islands	19	14.0	116	85.3	1	136
065	Cowichan	77	19.8	310	79.9	1	388
066	Lake Cowichan	4	11.1	32	88.9	–	36
067	Ladysmith	20	11.0	162	89.0	–	182
068	Nanaimo	123	17.2	591	82.4	3	717
069	Qualicum	46	11.0	374	89.0	–	420
070	Alberni	53	22.9	178	77.1	–	231
071	Courtenay	63	14.6	369	85.4	–	432
072/084	Campbell River/V.I. West	39	17.0	190	83.0	–	229
075	Mission	46	18.3	205	81.3	1	252
076	Agassiz–Harrison	15	23.8	48	76.2	–	63
077	Summerland	34	21.9	121	78.1	–	155
078	Enderby	24	36.9	41	63.1	–	65
080	Kitimat	27	51.9	25	48.1	–	52
081	Fort Nelson	8	50.0	8	50.0	–	16
083	Central Coast	8	61.5	4	30.8	1	13
085	Vancouver Island North	22	34.9	40	63.5	1	63
087/094	Stikine/Telegraph Creek	14	87.5	1	6.3	1	16
088	Terrace	47	39.2	73	60.8	–	120
092	Nishga	10	90.9	1	9.1	–	11
161	Vancouver City Centre	148	22.0	516	76.8	8	672
162	Vancouver Downtown E. Side	261	44.1	313	52.9	18	592
163	Vancouver North East	253	43.3	307	52.6	24	584
164	Vancouver West Side	201	24.2	622	75.0	6	829
165	Vancouver Midtown	218	46.1	248	52.4	7	473
166	Vancouver South	349	42.7	460	56.3	8	817
039	VANCOUVER TOTAL	1,433	25.3	2,469	74.0	71	3,973
	N.S.	1	–	–	–	–	1
	PROVINCIAL TOTAL	7,028	25.3	20,574	74.0	192	27,794

TABLE 46
METHOD OF DISPOSITION OF DECEDENT
BRITISH COLUMBIA, 1985–1999

Year	Burial		Cremation		Other	N.S.	Total
	Number	Percent	Number	Percent	Number	Number	
1985	8,558	40.5	12,434	58.8	108	31	21,131
1986	8,204	39.1	12,686	60.4	98	18	21,006
1987	8,211	38.0	13,279	61.4	104	25	21,619
1988	8,319	37.2	13,926	62.3	96	20	22,361
1989	8,061	35.4	14,616	64.2	81	22	22,780
1990	8,208	35.1	15,088	64.5	91	11	23,398
1991	8,035	33.8	15,675	65.9	75	9	23,794
1992	7,818	32.0	16,512	67.5	97	18	24,445
1993	7,986	31.2	17,211	67.2	151	253	25,601
1994	7,708	29.8	17,886	69.3	175	55	25,824
1995	7,613	29.0	18,358	70.0	184	64	26,219
1996	7,641	27.9	19,545	71.4	192	11	27,389
1997	7,360	27.0	19,647	72.1	205	47	27,259
1998	7,180	25.8	20,390	73.3	225	10	27,805
1999	7,028	25.3	20,574	74.0	192	–	27,794

Note: Percent is based on total deaths in the specified year.
Other includes remains not recovered and donations as per will of deceased.
N.S. – Not Stated.
Non-residents are excluded.

HIGHLIGHTS TO TABLE 46

- In 1999, out of approximately every 100 deaths:
  - 74 resulted in cremations (20,574)
  - 25 involved burials (7,028)
- Since 1985, there has been a general trend toward cremation as a method of disposition of the decedent.
- For information about burials and cremations by area, please refer to the information box *Methods of Disposition by Decedent's Local Health Area of Residence*.

TABLE 46
METHOD OF DISPOSITION OF DECEDENT
BRITISH COLUMBIA, 1985–1999

Year	Burial		Cremation		Other	N.S.	Total
	Number	Percent	Number	Percent	Number	Number	
1985	8,558	40.5	12,434	58.8	108	31	21,131
1986	8,204	39.1	12,686	60.4	98	18	21,006
1987	8,211	38.0	13,279	61.4	104	25	21,619
1988	8,319	37.2	13,926	62.3	96	20	22,361
1989	8,061	35.4	14,616	64.2	81	22	22,780
1990	8,208	35.1	15,088	64.5	91	11	23,398
1991	8,035	33.8	15,675	65.9	75	9	23,794
1992	7,818	32.0	16,512	67.5	97	18	24,445
1993	7,986	31.2	17,211	67.2	151	253	25,601
1994	7,708	29.8	17,886	69.3	175	55	25,824
1995	7,613	29.0	18,358	70.0	184	64	26,219
1996	7,641	27.9	19,545	71.4	192	11	27,389
1997	7,360	27.0	19,647	72.1	205	47	27,259
1998	7,180	25.8	20,390	73.3	225	10	27,805
1999	7,028	25.3	20,574	74.0	192	–	27,794

Note: Percent is based on total deaths in the specified year.
Other includes remains not recovered and donations as per will of deceased.
N.S. – Not Stated.
Non-residents are excluded.

HIGHLIGHTS TO TABLE 46

- In 1999, out of approximately every 100 deaths:
  - 74 resulted in cremations (20,574)
  - 25 involved burials (7,028)
- Since 1985, there has been a general trend toward cremation as a method of disposition of the decedent.
- For information about burials and cremations by area, please refer to the information box *Methods of Disposition by Decedent's Local Health Area of Residence.*

Marriage-related Statistics

Summary

Marriage statistics presented in this section summarize all marriages which took place in British Columbia, and include non-residents who were married in the province. Included are tables containing information about marriages by previous marital status, age of bride and groom, and type of ceremony.

Summary statistics for marriages in 1999 are presented below:

- There were 21,616 marriages in British Columbia. The 1999 marriage rate, 5.4 marriages per 1,000 population, was the lowest rate since 1950 which was 9.8 per 1,000 population (Table 1).
- In 1999, 60.6% of couples were marrying for the first time (13,097), 18.7% of marriages involved both partners previously divorced or widowed (4,032), and 20.8% where it was the first marriage for only one of the parties (4,487).
- Approximately one quarter (25.7%) of all brides (5,547) and one quarter (26.0%) of all grooms (5,626) who were married in 1999 had previously been divorced.
- The average age of brides and grooms, for first and later marriages combined, has been climbing steadily over the last two decades. In 1999, grooms were 34.7 years old on average, while brides were 31.8 years old (Table 5).
- Out of every 100 marriages in 1999:
  - 43 were performed by religious representatives
  - 57 were civil ceremonies

M121

IMPORTANT NOTE CONCERNING THE FOLLOWING PAGES

THE PAGES WHICH FOLLOW HAVE BEEN FILMED TWICE IN ORDER TO OBTAIN THE BEST REPRODUCTIVE QUALITY

USERS SHOULD CONSULT ALL THE PAGES REPRODUCED ON THE FICHE IN ORDER TO OBTAIN A COMPLETE READING OF THE TEXT.

REMARQUE IMPORTANTE CONCERNANT LES PAGES QUI SUIVENT

LES PAGES SUIVANTES ONT ÉTÉ REPRODUITES EN DOUBLE AFIN D'AMÉLIORER LA QUALITÉ DE REPRODUCTION

LES UTILISATEURS DOIVENT CONSULTER TOUTES LES PAGES REPRODUITES SUR LA FICHE AFIN D'OBTENIR LA LECTURE DU TEXTE INTÉGRAL

micromedia
a division of IHS Canada

20 Victoria Street
Toronto, Ontario M5C 2N8
Tel.: (416) 362-5211
Toll Free: 1-800-387-2689
Fax: (416) 362-6161
Email: info@micromedia.on.ca

TABLE 47
MARRIAGES BY MARITAL STATUS OF BRIDE AND GROOM
BRITISH COLUMBIA, 1999

Marital Status of Bride	Marital Status of Groom			Total
	Single	Widowed	Divorced	
Single	**13,097**	**83**	**2,209**	**15,389**
Widowed	117	271	292	680
Divorced	2,078	344	3,125	5,547
TOTAL	**15,292**	**698**	**5,626**	**21,616**

HIGHLIGHTS TO TABLE 47

- In 1999, there were 21,616 marriages in British Columbia, almost identical to the 21,764 marriages in 1998. The 1999 marriage rate, 5.4 marriages per 1,000 population, was the lowest rate since 1950, and was unchanged from 1998. Further information is presented in Table 1 and Figure 3.
- Out of approximately every 100 marriages in 1999:
  - 61 involved single brides and grooms (13,097)
  - 11 involved single brides and divorced or widowed grooms (2,292)
  - 10 involved single grooms and divorced or widowed brides (2,195)
  - 19 involved brides and grooms who were both divorced or widowed (4,032)
- Approximately one quarter (25.7%) of all brides (5,547) and one quarter (26.0%) of all grooms (5,626) who were married in 1999 had previously been divorced.

TABLE 48
MARRIAGES BY AGE OF BRIDE AND GROOM
BRITISH COLUMBIA, 1999

Age of Bride (in Years)	Age of Groom (in Years)											Total	
	<15	15–19	20–24	25–29	30–34	35–39	40–44	45–49	50–59	60+	N.S.	Number	Percent
<15	–	–	–	–	–	–	–	–	–	–	–	–	–
15–19	–	**93**	**302**	**121**	**22**	**6**	**5**	**1**	**1**	–	–	**551**	**2.5**
20–24	–	**47**	**1,881**	**1,929**	**466**	**142**	**48**	**8**	**10**	–	–	**4,531**	**21.0**
25–29	–	**4**	**436**	**3,023**	**1,890**	**639**	**172**	**44**	**31**	**3**	–	**6,242**	**28.9**
30–34	–	**2**	**72**	**668**	**1,496**	**1,017**	**429**	**150**	**74**	**5**	–	**3,913**	**18.1**
35–39	–	–	**26**	**144**	**478**	**773**	**519**	**273**	**160**	**14**	–	**2,387**	**11.0**
40–44	–	–	**1**	**32**	**86**	**272**	**399**	**381**	**275**	**47**	–	**1,493**	**6.9**
45–49	–	–	**1**	**9**	**20**	**49**	**162**	**289**	**390**	**107**	–	**1,027**	**4.8**
50–59	–	–	–	**5**	**10**	**28**	**58**	**131**	**444**	**293**	–	**969**	**4.5**
60+	–	–	–	–	**1**	**1**	**2**	**6**	**53**	**440**	–	**503**	**2.3**
N.S.	–	–	–	–	–	–	–	–	–	–	–	–	–
TOTAL	–	**146**	**2,719**	**5,931**	**4,469**	**2,927**	**1,794**	**1,283**	**1,438**	**909**	–	**21,616**	
Percent	–	**0.7**	**12.6**	**27.4**	**20.7**	**13.5**	**8.3**	**5.9**	**6.7**	**4.2**			**100.0**

Note: N.S. – Not Stated.

HIGHLIGHTS TO TABLE 48

- Marriages where either the bride or groom was under 20 years of age accounted for one out of every thirty-six marriages (604) in 1999. Among these marriages, there were only 93 where both the bride and groom were teenagers.
- Out of every 100 brides:
  - 3 were aged 15–19 (551)
  - 50 were aged 20–29 (10,773)
  - 29 were aged 30–39 (6,300)
  - 12 were aged 40–49 (2,520)
  - 4 were aged 50–59 (969)
  - 2 were aged 60 or older (503)
- Out of every 100 grooms:
  - 1 was aged 15–19 (146)
  - 40 were aged 20–29 (8,650)
  - 34 were aged 30–39 (7,396)
  - 14 were aged 40–49 (3,077)
  - 7 were aged 50–59 (1,438)
  - 4 were aged 60 or older (909)
- Out of every 100 marriages in 1999 (comparing age groups of the bride and groom):
  - 46 marriages involved grooms that were older than their brides (9,974)
  - 41 marriages involved brides and grooms in the same age group (8,838)
  - 13 marriages involved brides that were older than their grooms (2,804)
- The average ages of brides and grooms, for first and later marriages combined, have been climbing steadily over the last two decades. In 1999, grooms were 34.7 years old, on average, while brides were 31.8 years old. Further information is presented in Table 5/Figure 7.

TABLE 47

MARRIAGES BY MARITAL STATUS OF BRIDE AND GROOM

BRITISH COLUMBIA, 1999

Marital Status of Bride	Marital Status of Groom			Total
	Single	Widowed	Divorced	
Single	**13,097**	**83**	**2,209**	**15,389**
Widowed	117	271	292	680
Divorced	2,078	344	3,125	5,547
TOTAL	**15,292**	**698**	**5,626**	**21,616**

HIGHLIGHTS TO TABLE 47

- In 1999, there were 21,616 marriages in British Columbia, almost identical to the 21,764 marriages in 1998. The 1999 marriage rate, 5.4 marriages per 1,000 population, was the lowest rate since 1950, and was unchanged from 1998. Further information is presented in Table 1 and Figure 3.
- Out of approximately every 100 marriages in 1999:
  - 61 involved single brides and grooms (13,097)
  - 11 involved single brides and divorced or widowed grooms (2,292)
  - 10 involved single grooms and divorced or widowed brides (2,195)
  - 19 involved brides and grooms who were both divorced or widowed (4,032)
- Approximately one quarter (25.7%) of all brides (5,547) and one quarter (26.0%) of all grooms (5,626) who were married in 1999 had previously been divorced.

TABLE 48
MARRIAGES BY AGE OF BRIDE AND GROOM
BRITISH COLUMBIA, 1999

Age of Bride (in Years)	Age of Groom (in Years)											Total	
	<15	15–19	20–24	25–29	30–34	35–39	40–44	45–49	50–59	60+	N.S.	Number	Percent
<15	–	–	–	–	–	–	–	–	–	–	–	–	–
15–19	–	**93**	**302**	**121**	**22**	**6**	**5**	**1**	**1**	–	–	**551**	**2.5**
20–24	–	47	1,881	1,929	466	142	48	8	10	–	–	4,531	21.0
25–29	–	4	436	3,023	1,890	639	172	44	31	3	–	6,242	28.9
30–34	–	**2**	**72**	**668**	**1,496**	**1,017**	**429**	**150**	**74**	**5**	–	**3,913**	**18.1**
35–39	–	–	**26**	**144**	**478**	**773**	**519**	**273**	**160**	**14**	–	**2,387**	**11.0**
40–44	–	–	1	32	86	272	399	381	275	47	–	1,493	6.9
45–49	–	–	1	9	20	49	162	289	390	107	–	1,027	4.8
50–59	–	–	–	**5**	**10**	**28**	**58**	**131**	**444**	**293**	–	**969**	**4.5**
60+	–	–	–	–	1	1	2	6	53	440	–	503	2.3
N.S.	–	–	–	–	–	–	–	–	–	–	–	–	–
TOTAL	–	**146**	**2,719**	**5,931**	**4,469**	**2,927**	**1,794**	**1,283**	**1,438**	**909**	–	**21,616**	
Percent	–	**0.7**	**12.6**	**27.4**	**20.7**	**13.5**	**8.3**	**5.9**	**6.7**	**4.2**			**100.0**

Note: N.S. – Not Stated.

HIGHLIGHTS TO TABLE 48

- Marriages where either the bride or groom was under 20 years of age accounted for one out of every thirty-six marriages (604) in 1999. Among these marriages, there were only 93 where both the bride and groom were teenagers.
- Out of every 100 brides:
  - 3 were aged 15–19 (551)
  - 50 were aged 20–29 (10,773)
  - 29 were aged 30–39 (6,300)
  - 12 were aged 40–49 (2,520)
  - 4 were aged 50–59 (969)
  - 2 were aged 60 or older (503)
- Out of every 100 grooms:
  - 1 was aged 15–19 (146)
  - 40 were aged 20–29 (8,650)
  - 34 were aged 30–39 (7,396)
  - 14 were aged 40–49 (3,077)
  - 7 were aged 50–59 (1,438)
  - 4 were aged 60 or older (909)
- Out of every 100 marriages in 1999 (comparing age groups of the bride and groom):
  - 46 marriages involved grooms that were older than their brides (9,974)
  - 41 marriages involved brides and grooms in the same age group (8,838)
  - 13 marriages involved brides that were older than their grooms (2,804)
- The average ages of brides and grooms, for first and later marriages combined, have been climbing steadily over the last two decades. In 1999, grooms were 34.7 years old, on average, while brides were 31.8 years old. Further information is presented in Table 5/Figure 7.

TABLE 49
RELIGIOUS REPRESENTATIVES ON REGISTER AND MARRIAGES PERFORMED BY RELIGIOUS DENOMINATION
BRITISH COLUMBIA, 1999

Denomination	Number of Religious Representatives	Number Who Performed Marriages	Number of Marriages Performed
Anglican	522	235	736
Baptist	651	306	761
Eastern Orthodox	40	15	86
Jewish	28	18	52
Lutheran	267	124	391
Mennonite/Hutterite	426	194	410
Pentecostal	720	314	733
Presbyterian	178	89	216
Catholic	524	272	1,350
Salvation Army	166	43	68
Jehovahs Witness	101	66	146
United Church	571	332	1,655
Other Christian Religions	2,046	842	1,921
Other Non Christian Religions	371	134	822
Unknown/Not Stated	9	8	20
TOTAL	**6,620**	**2,992**	**9,367**

Note: Religious categories shown above are from Statistics Canada.
Individuals with temporary appointments are counted once for each appointment.

TABLE 50
MARRIAGE COMMISSIONERS ON REGISTER BY TYPE AND MARRIAGES PERFORMED
BRITISH COLUMBIA, 1999

Type of Commisioner	Number of Commissioners	Number Who Performed Marriages	Number of Marriages Performed
Private Commissioner	370*	370	12,248
Public Servant	9	1	1
TOTAL	**379**	**371**	**12,249**

Note: Individuals with temporary appointments are counted once for each appointment.
* Includes 85 temporary appointments.

HIGHLIGHTS TO TABLE 49/TABLE 50

- In British Columbia, marriage ceremonies can be performed by Religious Representatives or Marriage Commissioners. In 1999, there were 6,620 Religious Representatives and 379 Marriage Commissioners with the authority to solemnize marriages in the province.
- Out of every 100 marriages in 1999:
  - 43 were performed by religious representatives (9,367 marriages)
  - 57 were civil ceremonies (12,249)

TABLE 49
RELIGIOUS REPRESENTATIVES ON REGISTER AND MARRIAGES PERFORMED BY RELIGIOUS DENOMINATION
BRITISH COLUMBIA, 1999

Denomination	Number of Religious Representatives	Number Who Performed Marriages	Number of Marriages Performed
Anglican	522	235	736
Baptist	651	306	761
Eastern Orthodox	40	15	86
Jewish	28	18	52
Lutheran	267	124	391
Mennonite/Hutterite	426	194	410
Pentecostal	720	314	733
Presbyterian	178	89	216
Catholic	524	272	1,350
Salvation Army	166	43	68
Jehovahs Witness	101	66	146
United Church	571	332	1,655
Other Christian Religions	2,046	842	1,921
Other Non Christian Religions	371	134	822
Unknown/Not Stated	9	8	20
TOTAL	**6,620**	**2,992**	**9,367**

Note: Religious categories shown above are from Statistics Canada.
Individuals with temporary appointments are counted once for each appointment.

TABLE 50
MARRIAGE COMMISSIONERS ON REGISTER BY TYPE AND MARRIAGES PERFORMED
BRITISH COLUMBIA, 1999

Type of Commisioner	Number of Commissioners	Number Who Performed Marriages	Number of Marriages Performed
Private Commissioner	370*	370	12,248
Public Servant	9	1	1
TOTAL	**379**	**371**	**12,249**

Note: Individuals with temporary appointments are counted once for each appointment.
* Includes 85 temporary appointments.

HIGHLIGHTS TO TABLE 49/TABLE 50

- In British Columbia, marriage ceremonies can be performed by Religious Representatives or Marriage Commissioners. In 1999, there were 6,620 Religious Representatives and 379 Marriage Commissioners with the authority to solemnize marriages in the province.
- Out of every 100 marriages in 1999:
  - 43 were performed by religious representatives (9,367 marriages)
  - 57 were civil ceremonies (12,249)

Glossary

Terms, Methods, and Computational Examples

ACQUIRED IMMUNODEFICIENCY SYNDROME (AIDS)

In 1987, the World Health Organization, in recognition of AIDS and the human immunodeficiency virus (HIV) that causes AIDS as important health concerns, added new codes to the *International Classification of Diseases, Ninth Revision* (ICD9) which allowed AIDS (042) and HIV (043-044) to be identified as unique causes of death and also provided differentiation among the complications of AIDS.

AGE-SPECIFIC FERTILITY RATE (ASFR)

The rate of live births per 1,000 women for the specific age group. This is a more detailed measure than the crude birth rate, as it reflects variations in the birth rate by age groups of the female population.

(See **Statistical Computation** under Fertility Rate for an example.)

AGE STANDARDIZATION

Age standardized is a method of calculation which adjusts a statistical measure for differences in the age/gender structures between populations. With standardized measures, more meaningful comparisons can be made between genders, different time periods, or geographic areas, because the age standardized statistic is calculated as if all populations had the same age/gender population distribution.

(See **Age Standardized Mortality Rate (ASMR), Standardized Mortality Ratio (SMR), Potential Years of Life Lost Standardized Rate (PYLLSR),** and **Potential Years of Life Lost Index (PYLLI)**; for an example, see **Statistical Computation.**)

AGE STANDARDIZED MORTALITY RATE (ASMR)

A summary of age adjusted death rates by age and gender, which have been standardized to a 'standard' population (1991 Canada Census) for the purpose of rate comparisons between genders, different time periods or different geographic locations. The ASMR is the theoretical number of deaths that would occur per 10,000 population, if the specific population had the same age structure as the standard population.

(See **Age Standardization** and **Standard Population**; for an example, see **Statistical Computation**.)

AIDS

(See **Acquired Immunodeficiency Syndrome**.)

ALCOHOL-RELATED DEATHS

Alcohol-related deaths are based on the ICD9 diagnostic categories listed below, for which the resulting deaths are directly or indirectly attributed to the use or abuse of alcohol.

ICD9 Code	Diagnostic Category
291	Alcohol psychoses
303	Alcohol dependence syndrome
305.0	Non-dependent abuse of alcohol
357.5	Alcoholic polyneuropathy
425.5	Alcoholic cardiomyopathy
535.3	Alcoholic gastritis
571.0	Alcoholic fatty liver
571.1	Acute alcoholic hepatitis
571.2	Alcoholic cirrhosis of liver
571.3	Alcoholic liver damage, unspecified
571.5	Cirrhosis of liver without mention of alcohol
571.9	Unspecified chronic liver disease without mention of alcohol
577.1	Chronic pancreatitis
648.4	"Alcohol and pregnancy"
760.7	"Fetal Alcohol Syndrome"
790.3	Excessive blood level of alcohol
E860	Accidental alcohol poisoning

Alcohol is considered to be a direct cause of death if one of the above conditions is listed as the underlying cause of death on the medical certification of death. If, however, any of the above conditions are listed on the certificate as antecedent causes giving rise to the underlying cause or other significant conditions contributing to the death, the death is considered to be indirectly related to alcohol. ICD9 codes 648.4 and 760.7 include deaths due to substances other than alcohol. Only if alcohol is explicitly noted on the Medical Certificate is the Death considered to be alcohol-related for these codes. In 1993, the Medical Certification of Death form was revised to include a space to note environmental/occupational/lifestyle factors. As a result, the number of deaths indirectly related to alcohol has increased since 1993. Alcohol-related deaths can be viewed as a measure of the health status of the population.

ASFR

(See **Age Specific Fertility Rate.**)

ASMR

(See **Age Standardized Mortality Rate.**)

AVERAGE AGE

The average ages of brides, grooms, and mothers of newborns in this annual report are calculated based on information provided on marriage or birth registration forms. The average ages of the population living in data dissemination areas are based on the mid-year population estimates for 5 year age groups; see footnotes to Appendix 1 for specific sources of population data.

BIRTH ORDER

Denotes the number position of the present birth relative to previous live births. That is, whether the live birth being counted is the 1st, 2nd, 3rd, etc. live born infant to a particular mother.

BIRTH RATE

(See **Crude Rates.**)

BIRTH WEIGHT

The first weight of the fetus or newborn after birth. For live births this weight should be measured within the first hour of life before significant postnatal weight loss has occurred. Hospitals in B.C. measure weight in grams; the approximate equivalents in imperial measures are included below for comparisons to other jurisdictions. For statistical and risk assessment purposes, birth weights are grouped as:

Extremely Low Birth Weight:	weight less than 500 grams (< 1 lb 2 oz).
Very Low Birth Weight:	weight less than 1,500 grams (< 3 lb 5 oz).
Low Birth Weight (LBW):	weight less than 2,500 grams (< 5 lb 8 oz).
"Normal" Birth Weight:	weight from 2,500 to 4,499 grams (5 lb 8 oz to 9 lb 15 oz).
High Birth Weight:	weight of 4,500 grams or more (> 9 lb 15 oz).

BIRTHS

(See **Total Births.**)

BREECH

(See **Mode of Delivery.**)

CESAREAN

(See **Mode of Delivery.**)

COMMUNITY

A geographic area defined by a municipal (city, town, village, or district municipality) boundary. In this report, data are provided only for those communities which are incorporated.

CONFIDENCE INTERVAL

(See **Statistical Test.**)

CONGENITAL ANOMALIES

Physical defects that existed or date from birth.

CRUDE RATES

For live births: the crude rate is the number of births divided by the mid-year population and converted to a rate per 1,000 population.

For birth-related statistics (teenage mother, elderly gravida, C-section, low birth weight, and pre-term): the rate is the number of these births divided by the number of live births and converted to a rate per 1,000 live births.

For stillbirths and perinatal deaths: the rate is the number of stillbirths, perinatal deaths divided by the number of total births (live births plus stillbirths) and converted to a rate per 1,000 total births.
For infant deaths: the crude rate is the number of infant deaths divided by the number of live births and converted to a rate per 1,000 live births.
For maternal deaths: the rate is the number of maternal deaths divided by the number of live births, and converted to a rate per 10,000 live births.
For deaths and mortality statistics: the crude rate is the number of deaths divided by the mid-year population and converted to a rate per 1,000 population.
For marriages: the crude rate is the number of marriages divided by the mid-year population and converted to a rate per 1,000 population.

DEATH RATE

(See **Crude Rates**.)

DRUG-INDUCED DEATHS

Deaths due to drug-induced causes. This category of deaths excludes accidents, homicides, and other causes indirectly related to drug use, as well as alcohol-related deaths and smoking-attributable mortality. With the exception of codes E930–E949, the causes of death classified as being drug-induced (as shown below) are those used by the National Center for Health Statistics (National Center for Health Statistics (1993). Technical notes. *Monthly Vital Statistics Report*. **41** (Suppl. 7), 48). ICD9 codes 779.5 (drug withdrawal syndrome in newborn) and E929.2 (late effects of accidental poisoning) were also considered but were excluded as they could include alcohol as well as other drugs.

ICD9 Code(s)	Diagnostic Category
292	Drug psychoses
304	Drug dependence
305.2–305.9	Nondependent use of drugs, not including alcohol and tobacco
E850–E858	Accidental poisoning by drugs, medicaments, and biologicals
E930–E949	Drugs, medicaments, and biologicals causing adverse effects in therapeutic use
E950.0–E950.5	Suicide by drugs, medicaments, and biologicals
E962.0	Assault from poisoning by drugs and medicaments
E980.0–E980.5	Poisoning by drugs, medicaments, and biologicals, undetermined whether accidentally or purposely inflicted

EARLY NEONATAL DEATH

Death of a child under seven days of age.

ELDERLY GRAVIDA

Any woman who was 35 years of age or older at the time of delivery of a live born infant.

EXPECTED DEATHS

The number of deaths expected for residents of a sub-provincial geographic area, based on the age-specific mortality rates for the province as a whole and the population age structure of the sub-provincial geographic area.

(See **Statistical Computation** for an example.)

EXPECTED LOW BIRTH WEIGHT

The number of live births with low birth weight (less than 2,500 grams) that would be expected to be born to residents of a sub-provincial geographic area, based on the low birth weight rate for the province as a whole, and the number of births in the sub-provincial geographic area.

(See **Statistical Calculation** under Low Birth Weight Live Births for an example.)

EXPECTED POTENTIAL YEARS OF LIFE LOST

The number of potential years of life lost (to age 75, as in this report) expected for residents of a sub-provincial geographic area based on the age-specific mortality rates for the province as a whole and the population age structure of the sub-provincial geographic area.

(See **Statistical Computation** under Potential Years of Life Lost Index for an example.)

FERTILITY RATE

The number of live births occurring in a given time period divided by the number of women of child-bearing age for residents of a geographic area. B.C. rates are per 1,000 women aged 15 to 44. Canadian rates are per 1,000 women aged 15 to 49.

(See **Total Fertility Rate**.)

FORCEPS

(See **Mode of Delivery**.)

GESTATIONAL AGE

Fetal age or duration of pregnancy measured from the first day of the last normal menstrual period. Gestational age is expressed in completed days or completed weeks (e.g., events occurring 280 to 286 days after the onset of the last normal menstrual period are considered to have occurred at 40 weeks of gestation).

Measurements of fetal growth, as they represent continuous variables, are expressed in relation to a specific week of gestational age as follows:

- **Extremely premature:**
  gestational age of less than 28 weeks.
- **Moderately premature:**
  gestational age of 28 to 36 weeks.
- **Pre-term/Premature:**
  age less than 37 weeks of gestation.
- **Term:**
  gestational age of 37 to 41 weeks.
- **Post-term/Postmature:**
  gestational age of 42 weeks or more.

HEALTH REGION (HR)

A geographic subdivision of the province used by the Ministry of Health for data dissemination purposes. In 1994, the Ministry began an extensive regionalization process which established Regional Health Boards, Community Health Service Societies, and Community Health Councils. This publication includes data by 20 health regions (HR); beginning with the 1998 report, the boundaries of these HR have been revised to correspond to those of the revised local health areas. To ensure data is provided for all the regional health authorities, additional data for Vancouver/Richmond Regional Health Board and the Simon Fraser Health Board have been included in Appendix 3.

Figure 2 presents a map of the province by health region.

HIV

(See **Human Immunodeficiency Virus**.)

HUMAN IMMUNODEFICIENCY VIRUS (HIV)

The virus that causes acquired immunodeficiency syndrome (AIDS).

ICD9 CODES

International Classification of Diseases Codes, Ninth Revision, established by the World Health Organization (1977).

INFANT MORTALITY

Death of children under one year of age.

INFANT MORTALITY RATE

The number of deaths of children under one year of age expressed as a rate per 1,000 live births. The infant mortality rate is an internationally accepted indicator of the health status of a population.

LBW

(See **Low Birth Weight**.)

LHA

(See **Local Health Area**.)

LIFE EXPECTANCY

Life expectancy at age 0 represents the mean number of years a birth cohort (persons born in the same year) may expect to live given the present mortality experience of a population. The life expectancy for a population is a summary measure that reflects the mortality rates for all ages combined, weighted in accordance with a life-table population structure. Life expectancy is an internationally accepted indicator of the health status of a population.

LIVE BIRTH

The complete expulsion or extraction from its mother, irrespective of the duration of the pregnancy, of a product of conception in which, after the expulsion or extraction, there is:

(a) breathing;
(b) beating of the heart;
(c) pulsation of the umbilical cord; or
(d) unmistakable movement of voluntary muscle, whether or not the umbilical cord has been cut or the placenta attached.

LOCAL HEALTH AREA

A geographic subdivision of the province used by the Ministry of Health for data dissemination purposes, which can be aggregated into health regions (HR). In 1994, the Ministry began an extensive regionalization process that established Regional Health Boards, Community Health Service Societies, and Community Health Councils. Some of the boundaries of these new health authorities were adjusted in the regionalization process, resulting in significant revisions to the LHA boundaries. Beginning with the 1998 report, regional data and maps use the revised LHA boundaries that correspond to, or can be aggregated to, the boundaries of the regional health authorities. In LHA tables, four pairs of LHAs have been merged into combined areas for data dissemination purposes, to have their boundaries correspond to those of Community Health Councils.

Figure 1 presents a map of the province by local health area (LHA).

LOW BIRTH WEIGHT (LBW)

A birth weight of less than 2,500 grams. Low birth weight babies have increased risks of morbidity and premature death.

LOW BIRTH WEIGHT RATE

The number of low birth weight live born babies per 1,000 live births.

MARRIAGE RATE

(See **Crude Rates**.)

MATERNAL DEATH/MORTALITY

A maternal death is the death of a woman while pregnant or within 42 days of termination of pregnancy, irrespective of the duration or the site of the pregnancy, from any cause related to or aggravated by the pregnancy or its management (direct or indirect obstetrical) but not from accidental or incidental causes.

MATERNAL MORTALITY RATE

Maternal deaths expressed as a rate per 10,000 live births.

MEDICALLY TREATABLE DISEASES, DEATHS DUE TO

Deaths due to medically treatable diseases are based on Charlton's[1] classification. The disease categories (shown below) are ones for which mortality could **potentially** have been avoided through appropriate medical intervention. The calculation of this measure is based on deaths where the underlying cause stated on the medical certificate of death falls into one of these categories.

ICD9 Code(s)	Diagnostic Category (Charlton)
001–005, 020–041, 320, 382, 383 390–392, 680–686, 711, 730	Bacterial infections (age 5–64)
010–018, 137	Tuberculosis (age 5–64)
180	Cervical cancer (age 5–64)
201	Hodgkin's disease (age 5–34)
280, 281	Deficiency anemias (age 5–64)
393–398	Chronic rheumatic heart disease (age 5–44)
401–405	Hypertensive disease (age 5–64)
460–466, 487	Acute respiratory infections and influenza (age 5–49)
481–486, 490	Pneumonia and unspecified bronchitis (age 5–49)
493	Asthma (age 5–49)
540–543, 550–553, 574, 575	Abdominal hernias, cholecystitis, cholelithiasis and appendicitis (age 5–64).

MID-YEAR POPULATION

The estimated population at the midpoint of the year, which approximates the average population for the year.

MODE OF DELIVERY

- **Cesarean:**
  A delivery involving the surgical incision of the abdomen and uterine walls.
- **Forceps:**
  An assisted delivery employing forceps.
- **Spontaneous Breech:**
  An unassisted (spontaneous) delivery in which the buttocks or feet of the fetus appear first.
- **Spontaneous Vertex:**
  An unassisted (spontaneous) delivery in which the head of the fetus appears first.
- **Vacuum:**
  An assisted delivery employing suction or vacuum.

MVA DEATHS

Motor Vehicle Accidental Deaths (ICD9 codes: E800–E825).

NATURAL POPULATION INCREASE

The component increase in a population due to the number of live births less deaths. This increase may often be expressed as a rate, such as per 1,000 population.

NEONATAL DEATH

Death of a child under 28 days of age.

OBSERVED DEATHS

The actual number of deaths that occurred in the province to residents of a geographic area in a specified time period.

OBSERVED LOW BIRTH WEIGHT LIVE BIRTHS

The actual number of low birth weight live births that occurred in the province to residents of a geographic area in a specified time period.

OBSERVED PYLL

The actual number of potential years of life lost (to age 75) from deaths that occurred in the province to residents of a geographic area in a specified time period.

---

[1] Charlton, J.R.H. (1987). Avoidable Deaths and Diseases as Monitors of Health Promotion. *In* T. Abelin, Z.J. Brzezinski, & V. Carstairs (Eds.), *Measurement in Health Promotion and Protection* (pp. 467–479). Copenhagen, Denmark: World Health Organization, Regional Office for Europe.

OUT-OF-WEDLOCK BIRTHS
Births where the mother of the baby is not lawfully married to the father of the baby.

P-VALUE
(See **Statistical Test**.)

PERINATAL
Pertaining to or occurring in the period shortly before, during, and after birth.

POPULATION
Mid-year population estimates used in the preparation of this report were obtained from BC STATS, Ministry of Finance. For specific sources, please refer to **Population Data** in the Introduction.

POST NEONATAL DEATH
Death of a child between the ages of 28 days and less than one year.

POST-TERM
(See **Gestational Age**.)

POTENTIAL YEARS OF LIFE LOST (PYLL)
The number of years of life lost when a person dies before a specified age (75 years). In this report, all deaths are assumed to occur at the midpoint of five-year age groups.
(See **Statistical Computation** for an example.)

PRE-TERM
(See **Gestational Age**.)

PYLL INDEX (PYLLI)
The ratio of an area's observed PYLL to its expected PYLL. This is a health status indicator.
(See **Statistical Computation** for an example.)

PYLL STANDARDIZED RATE (PYLLSR)
An age-standardized measure of an area's PYLL, expressed in terms of a rate per 1,000 population, adjusted to a standard population (1991 Canada Census). This is a health status indicator.
(See **Statistical Computation** for an example.)

PYLLI
(See **PYLL Index**.)

PYLLSR
(See **PYLL Standardized Rate**.)

QUINTILE
A ranking is derived by dividing a group (e.g., LHAs within British Columbia) into five subgroups, each with equal numbers of LHAs. These divisions are derived from a ranking of the group members according to the value of a measure, such as the SMR or the PYLLI.

SAM
(See **Smoking-attributable Mortality**.)

SAM(%)
(See **Smoking-attributable Mortality**.)

SIDS
Sudden Infant Death Syndrome.

SMOKING-ATTRIBUTABLE MORTALITY (SAM)
The absence on death certifications of complete and reliable data on smoking as a contributing factor requires that estimation or other techniques be used to approximate the extent of smoking-attributable deaths. Estimation methods, while not precise, may at least provide a general indication of the extent of such deaths. The method used here is based on the concept of attributable risk.

To define attributable risk mathematically, consider d_0 and d_1 respectively to represent the death rates, in a given time period, in two cohorts from a population — those not exposed and those exposed to a given risk factor. The attributable risk of this factor, AR_1, would then be:

$$AR_1 = \frac{d_1 - d_0}{d_1} = \frac{r_1 - 1}{r_1}$$

Where: $r_1 = d_1/d_0$ is the relative risk of the exposed cohort.

The relative risk of the unexposed cohort is $r_0 = 1$; the attributable risk of this cohort is $AR_0 = 0$.

The attributable risk (AR) for the population as a whole (exposed plus unexposed cohorts) is given by:

$$AR = \frac{p_1 (r_1 - 1)}{p_1 (r_1) + (1 - p_1) (r_0)} = \frac{(p_1) (r_1 - 1)}{(p_1) (r_1 - 1) + 1}$$

Where: p_1 = the proportion or fraction of the population exposed to the risk factor; and
$1\text{-}p_1$ = the proportion or fraction of the population not exposed to the risk factor.

This may be extended to account for multiple levels of exposure, as follows:

$$AR = \frac{\sum_{i=1}^{n} p_i (r_i - 1)}{\sum_{i=1}^{n} p_i (r_i - 1) + 1}$$

Where: p_i = the proportion (prevalence) of the population in the ith level of exposure group;
r_i = the relative risk at the ith level of exposure; and
i = the ith risk category.

When applied to smoking-attributable mortality (SAM), the attributable risk is often expressed as a percentage:

$$SAM\ (\%) = AR \times 100$$

The number of adult (35+ years of age) smoking deaths in British Columbia were estimated for 19 diseases. Smoking-attributable deaths are derived by multiplying the smoking-attributable mortality percentage expressed as a decimal fraction by the number of deaths in each diagnostic category listed below.

ICD9 Code(s)	Diagnostic Category
140–149	Malignant neoplasms of lip, oral cavity, and pharynx
150	Malignant neoplasm of esophagus
157	Malignant neoplasm of pancreas
161	Malignant neoplasm of larynx
162	Malignant neoplasm of trachea, lung, and bronchus
180	Malignant neoplasm of cervix uteri
188	Malignant neoplasm of urinary bladder
189	Malignant neoplasm of kidney and other urinary organs
401–404	Hypertension
410–414	Ischaemic heart disease
415–417, 420–429, 390–398	Other heart diseases
430–438	Cerebrovascular disease
440	Atherosclerosis
441	Aortic aneurysm
442–448	Other arterial disease
480–487	Pneumonia and influenza
491–492	Bronchitis and emphysema
493, 010–012	Other respiratory diseases
496	Chronic obstructive pulmonary disease

M121

IMPORTANT NOTE CONCERNING THE FOLLOWING PAGES

THE PAGES WHICH FOLLOW HAVE BEEN FILMED TWICE IN ORDER TO OBTAIN THE BEST REPRODUCTIVE QUALITY

USERS SHOULD CONSULT ALL THE PAGES REPRODUCED ON THE FICHE IN ORDER TO OBTAIN A COMPLETE READING OF THE TEXT.

REMARQUE IMPORTANTE CONCERNANT LES PAGES QUI SUIVENT

LES PAGES SUIVANTES ONT ÉTÉ REPRODUITES EN DOUBLE AFIN D'AMÉLIORER LA QUALITÉ DE REPRODUCTION

LES UTILISATEURS DOIVENT CONSULTER TOUTES LES PAGES REPRODUITES SUR LA FICHE AFIN D'OBTENIR LA LECTURE DU TEXTE INTÉGRAL

micromedia
a division of IHS Canada

20 Victoria Street
Toronto, Ontario M5C 2N8
Tel.: (416) 362-5211
Toll Free: 1-800-387-2689
Fax: (416) 362-6161
Email: info@micromedia.on.ca

Relative-risk data from the American Society's Cancer Prevention Study (CPS) II (1982–1988) (Centers for Disease Control, 1990) were selected for use, as they have been widely used for similar analyses. The data from the CPS–II established the age groups and the classification of smokers (current, former, and never) for which smoking prevalence data were required. The relative risk age categories were for 35+, or 35–64 and 65+. For the Vital Statistics Annual Reports up to 1996, the available smoking prevalence data were available for the broader age group 25–44; therefore the assumption had to be made that the prevalence rates for age groups 35+ were the same as the rates for age groups 25+. Additionally, provincial prevalence age group rates were not published, and had to be approximated by adjusting the Canadian rates.

Beginning with the 1997 Annual Report, actual B.C. prevalence rates were available separately for the required 25–34 and 35–44 age categories from the *Tobacco Use in BC (1997)* survey commissioned by the BC and Yukon Health and Stroke Foundation.[2] These additional prevalence data enabled the SAM% to better reflect B.C. data. As a result of this change, comparisons should not be made to earlier estimates of smoking attributable mortality.

Reference

Centres for Disease Control (1990). *Smoking and health: A national status report.* (DHSS publication no. (CDC) 87–8396). 2nd Edition. Rockville, MD: U.S. Department of Health and Human Services.

SMR

(See **Standardized Mortality Ratio**.)

SPONTANEOUS DELIVERY

(See **Mode of Delivery.**)

STANDARD POPULATION

A reference population of known age distribution used in the calculation of standardized indicators to adjust for variations in population age structures in different geographic areas or time periods. For SMR and PYLLI calculations the standard population is the British Columbia population for the year(s) concerned. Beginning in the 1998 report, the 1991 Canadian Census is used as the standard population in the calculation of ASMR and PYLLSR.

STANDARDIZED MORTALITY RATIO (SMR)

The ratio of the number of deaths occurring to residents of a geographic area (e.g., LHA) to the expected number of deaths in that area based on provincial age-specific mortality rates. The SMR is a good measure for comparing mortality data that are based on a small number of cases or for readily comparing mortality data by geographical area. SMR is an internationally recognized health status indicator.

(See **Age Standardization** and **Standard Population**; for an example see **Statistical Computation**.)

STATISTICAL COMPUTATION

The following provides the reader with computational examples of how various measures are calculated. In the examples, LHAs have been employed as the geographic unit of analysis. All data shown in the examples are hypothetical.

- **Age Standardized Mortality Rate (ASMR):**

		LHA		
Age Group (i)	Standard Population (π_i)	Estimated Population (p_i)	Death Rate/10,000 (m_i)	Observed Deaths (d_i)
<1	403,061	1,339	22.4	3
1–4	1,550,285	5,483	1.8	1
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
80–84	382,303	1,198	701.2	84
85 +	287,877	908	1596.9	145
TOTAL	28,120,065	81,016		561

[2] Detailed information from the *Tobacco Use in BC (1997)* survey is on CD-ROM. A link to summary data can be found on the ministry's web page http://www.hlth.gov.bc.ca/program.html

Relative-risk data from the American Society's Cancer Prevention Study (CPS) II (1982–1988) (Centers for Disease Control, 1990) were selected for use, as they have been widely used for similar analyses. The data from the CPS–II established the age groups and the classification of smokers (current, former, and never) for which smoking prevalence data were required. The relative risk age categories were for 35+, or 35–64 and 65+. For the Vital Statistics Annual Reports up to 1996, the available smoking prevalence data were available for the broader age group 25–44; therefore the assumption had to be made that the prevalence rates for age groups 35+ were the same as the rates for age groups 25+. Additionally, provincial prevalence age group rates were not published, and had to be approximated by adjusting the Canadian rates.

Beginning with the 1997 Annual Report, actual B.C. prevalence rates were available separately for the required 25–34 and 35–44 age categories from the *Tobacco Use in BC (1997)* survey commissioned by the BC and Yukon Health and Stroke Foundation.[2] These additional prevalence data enabled the SAM% to better reflect B.C. data. As a result of this change, comparisons should not be made to earlier estimates of smoking attributable mortality.

Reference

Centres for Disease Control (1990). *Smoking and health: A national status report.* (DHSS publication no. (CDC) 87–8396). 2nd Edition. Rockville, MD: U.S. Department of Health and Human Services.

SMR

(See **Standardized Mortality Ratio**.)

SPONTANEOUS DELIVERY

(See **Mode of Delivery.**)

STANDARD POPULATION

A reference population of known age distribution used in the calculation of standardized indicators to adjust for variations in population age structures in different geographic areas or time periods. For SMR and PYLLI calculations the standard population is the British Columbia population for the year(s) concerned. Beginning in the 1998 report, the 1991 Canadian Census is used as the standard population in the calculation of ASMR and PYLLSR.

STANDARDIZED MORTALITY RATIO (SMR)

The ratio of the number of deaths occurring to residents of a geographic area (e.g., LHA) to the expected number of deaths in that area based on provincial age-specific mortality rates. The SMR is a good measure for comparing mortality data that are based on a small number of cases or for readily comparing mortality data by geographical area. SMR is an internationally recognized health status indicator.

(See **Age Standardization** and **Standard Population**; for an example see **Statistical Computation**.)

STATISTICAL COMPUTATION

The following provides the reader with computational examples of how various measures are calculated. In the examples, LHAs have been employed as the geographic unit of analysis. All data shown in the examples are hypothetical.

- **Age Standardized Mortality Rate (ASMR):**

Age Group (i)	Standard Population (π_i)	LHA		
		Estimated Population (p_i)	Death Rate/10,000 (m_i)	Observed Deaths (d_i)
<1	403,061	1,339	22.4	3
1–4	1,550,285	5,483	1.8	1
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
80–84	382,303	1,198	701.2	84
85 +	287,877	908	1596.9	145
TOTAL	28,120,065	81,016		561

[2] Detailed information from the *Tobacco Use in BC (1997)* survey is on CD-ROM. A link to summary data can be found on the ministry's web page http://www.hlth.gov.bc.ca/program.html

For the Local Health Area:

$$ASMR = \frac{\sum m_i \times \pi_i}{\prod} = \frac{22.4 \times 403{,}061 + \ldots + 1{,}596.9 \times 287{,}877}{28{,}120{,}065} = 46.2$$

Where: p_i = area population in age group i;
π_i = standard population in age group i;
$\prod = \sum \pi_i$ = total standard population;
d_i = deaths in LHA population in age group i; and
$m_i = d_i / p_i \times 10{,}000$ = mortality rate per 10,000 LHA population in age group i.

e.g., $m_i = \frac{3 \times 10{,}000}{1{,}339} = 22.4$, for age group 1.

- **Fertility Rate:**

Age Group (i)	LHA Live Births (b_i)	LHA Female Population (w_i)	LHA Age Specific Fertility Rate ($ASFR_i$)
15–19	19	598	31.8
20–24	46	440	104.5
25–29	74	498	148.6
30–34	51	745	68.5
35–39	12	690	17.4
40–44	2	581	3.4
TOTAL	204	3,552	374.2

For the Local Health Area:

1) the age specific fertility rate (ASFR) for age group 15–19 years is:

$$ASFR_i = \frac{b_i}{w_i} \times 1{,}000 = \frac{19}{598} \times 1{,}000 = 31.8$$

Where: b_i = number of live births for age group i; and
w_i = number of female population for age group i.

2) the total fertility rate (TFR) is:

$$TFR = a \times \sum ASFR_i = 5 \times (31.8 + \ldots + 3.4) = 1{,}871$$

Where: $ASFR_i$ = age specific fertility rate for age group i; and
a = number of years in each age group i.

- **Low Birth Weight (LBW) Live Births:**

Year (i)	LHA Low Birth Weight Live Births Observed (O_i)	LHA Low Birth Weight Live Births Expected (E_i)	LHA Total Live Births (L_i)	British Columbia Low Birth Weight Live Births Observed (b_i)	British Columbia Total Live Births (B_i)
1995	92	82.9	1,701	2,096	42,989
1996	69	74.6	1,588	1,965	41,846
1997	102	80.2	1,582	2,113	41,655
1998	85	74.7	1,495	2,145	42,913
1999	91	78.1	1,501	2,267	43,586
TOTAL	439	390.6	7,867	10,586	212,989

For the Local Health Area:

1) the expected low birth weight live births for year i = 1985 were:

$$E_i = \frac{b_i}{B_i} \times L_i = \frac{2,096}{42,989} \times 1,701 = 82.9$$

Where: b_i = number of LBW live births for the province in year i;
B_i = number of live births for the province in year i; and
L_i = number of live births for the LHA.

2) the ratio of observed over the expected LBW live births for the five-year period was:

$$\text{Ratio} = \frac{\sum O_i}{\sum E_i} = \frac{92 + \ldots + 91}{82.9 + \ldots + 78.1} = \frac{439}{390.6} = 1.1$$

Where: O_i = observed LBW live births for year i; and
E_i = expected LBW live births for year i.

3) Chi-Square (χ^2) :

$$\chi^2 = \frac{(O - E)^2}{E} = \frac{(439 - 390.6)^2}{390.6} = 6.0$$

Where: $O = \sum O_i$ = total number of observed LBW live births; and
$E = \sum E_i$ = total number of expected LBW live births.

- **Potential Years of Life Lost (PYLL) and Standard Rate (PYLLSR):**

Age Group (i)	Age Factor ($75-Y_i$)	Standard Population (π_i)	LHA			
			Estimated Population (p_i)	Death Rate/1,000 (m_i)	Observed Deaths (d_i)	Observed PYLL ($d_i(75-Y_i)$)
<1	74.5	403,061	1,339	2.2	3	223.5
1–4	72.0	1,550,285	5,483	0.2	1	72.0
5–9	67.5	1,953,045	6,553	0.2	1	67.5
.	.	.	.	.	.	
.	.	.	.	.	.	
.	.	.	.	.	.	
65–69	7.5	1,084,588	3,538	18.7	66	495.0
70–74	2.5	834,024	2,779	28.8	80	200.0
TOTAL	–	28,120,065	79,140		239	3,183.0

For the Local Health Area:

$$PYLL = \sum di \times (75 - Yi)$$

Where: d_i = number of deaths in age group i;
Y_i = age at midpoint of age group i; and
$\sum$ = summation.

$$PYLLSR = \frac{\sum m_i \times \pi_i \times (75 - Y_i)}{\prod} = \frac{2.2 \times 403,061 \times 74.5 + \ldots + 28.8 \times 834,024 \times 2.5}{28,120,065} = 37.0$$

For the Local Health Area:

$$ASMR = \frac{\sum m_i \times \pi_i}{\prod} = \frac{22.4 \times 403{,}061 + \ldots + 1{,}596.9 \times 287{,}877}{28{,}120{,}065} = 46.2$$

Where: p_i = area population in age group i;
π_i = standard population in age group i;
$\prod = \sum \pi_i$ = total standard population;
d_i = deaths in LHA population in age group i; and
$m_i = d_i / p_i \times 10{,}000$ = mortality rate per 10,000 LHA population in age group i.

e.g., $m_i = \frac{3 \times 10{,}000}{1{,}339} = 22.4$, for age group 1.

- **Fertility Rate:**

Age Group (i)	LHA Live Births (b_i)	LHA Female Population (w_i)	LHA Age Specific Fertility Rate ($ASFR_i$)
15–19	**19**	**598**	**31.8**
20–24	**46**	**440**	**104.5**
25–29	74	498	148.6
30–34	51	745	68.5
35–39	**12**	**690**	**17.4**
40–44	**2**	**581**	**3.4**
TOTAL	204	3,552	374.2

For the Local Health Area:

1) the age specific fertility rate (ASFR) for age group 15–19 years is:

$$ASFR_i = \frac{b_i}{w_i} \times 1{,}000 = \frac{19}{598} \times 1{,}000 = 31.8$$

Where: b_i = number of live births for age group i; and
w_i = number of female population for age group i.

2) the total fertility rate (TFR) is:

$$TFR = a \times \sum ASFR_i = 5 \times (31.8 + \ldots + 3.4) = 1{,}871$$

Where: $ASFR_i$ = age specific fertility rate for age group i; and
a = number of years in each age group i.

- **Low Birth Weight (LBW) Live Births:**

Year (i)	LHA Low Birth Weight Live Births Observed (O_i)	LHA Low Birth Weight Live Births Expected (E_i)	LHA Total Live Births (L_i)	British Columbia Low Birth Weight Live Births Observed (b_i)	British Columbia Total Live Births (B_i)
1995	**92**	**82.9**	**1,701**	**2,096**	**42,989**
1996	**69**	**74.6**	**1,588**	**1,965**	**41,846**
1997	102	80.2	1,582	2,113	41,655
1998	85	74.7	1,495	2,145	42,913
1999	**91**	**78.1**	**1,501**	**2,267**	**43,586**
TOTAL	**439**	**390.6**	**7,867**	**10,586**	**212,989**

For the Local Health Area:

1) the expected low birth weight live births for year i = 1985 were:

$$E_i = \frac{b_i}{B_i} \times L_i = \frac{2{,}096}{42{,}989} \times 1{,}701 = 82.9$$

Where: b_i = number of LBW live births for the province in year i;
B_i = number of live births for the province in year i; and
L_i = number of live births for the LHA.

2) the ratio of observed over the expected LBW live births for the five-year period was:

$$\text{Ratio} = \frac{\sum O_i}{\sum E_i} = \frac{92 + \ldots + 91}{82.9 + \ldots + 78.1} = \frac{439}{390.6} = 1.1$$

Where: O_i = observed LBW live births for year i; and
E_i = expected LBW live births for year i.

3) Chi-Square (χ^2) :

$$\chi^2 = \frac{(O - E)^2}{E} = \frac{(439 - 390.6)^2}{390.6} = 6.0$$

Where: O = $\sum O_i$ = total number of observed LBW live births; and
E = $\sum E_i$ = total number of expected LBW live births.

- **Potential Years of Life Lost (PYLL) and Standard Rate (PYLLSR):**

Age Group (i)	Age Factor ($75-Y_i$)	Standard Population (π_i)	LHA Estimated Population (p_i)	LHA Death Rate/1,000 (m_i)	LHA Observed Deaths (d_i)	LHA Observed PYLL ($d_i(75-Y_i)$)
<1	74.5	403,061	1,339	2.2	3	223.5
1–4	72.0	1,550,285	5,483	0.2	1	72.0
5–9	67.5	1,953,045	6,553	0.2	1	67.5
.	.	.	.	.	.	
.	.	.	.	.	.	
.	.	.	.	.	.	
65–69	7.5	1,084,588	3,538	18.7	66	495.0
70–74	2.5	834,024	2,779	28.8	80	200.0
TOTAL	–	28,120,065	79,140		239	3,183.0

For the Local Health Area:

$$PYLL = \sum di \times (75 - Yi)$$

Where: d_i = number of deaths in age group i;
Y_i = age at midpoint of age group i; and
$\sum$ = summation.

$$PYLLSR = \frac{\sum m_i \times \pi_i \times (75 - Y_i)}{\prod} = \frac{2.2 \times 403{,}061 \times 74.5 + \ldots + 28.8 \times 834{,}024 \times 2.5}{28{,}120{,}065} = 37.0$$

Where: p_i = LHA population in age group i;
π_i = standard population in age group i;
$\prod = \sum \pi_i$ = total standard population;
d_i = deaths in LHA population in age group i;
Y_i = age at midpoint of age group i; and

- **Potential Years of Life Lost Index (PYLLI):**

		LHA					British Columbia			
Age Group (i)	Age Factor $(75-Y_i)$	Estimated Population (p_i)	Death Rate/1,000 (m_i)	Observed Deaths (d_i)	Observed PYLL $(d_i(75-Y_i))$	Expected PYLL $(e_i(75-Y_i))$	Estimated Population (P_i)	Death Rate/1,000 $(D_i/P_i \times 1.000)$	Observed Deaths (D_i)	Observed PYLL $(D_i(75-Y_i))$
<1	74.5	1,339	2.2	3	223.5	766.3	42,700	7.7	328	24,436.0
1–4	72.0	5,483	0.2	1	72.0	139.6	172,500	0.4	61	4,392.0
5–9	67.5	6,553	0.2	1	67.5	96.6	215,100	0.2	47	3,172.5
.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
65–69	7.5	3,538	18.7	66	495.0	443.9	137,200	16.7	2,295	17,212.5
70–74	2.5	2,779	28.8	80	200.0	182.3	107,000	26.2	2,807	7,017.5
TOTAL	–	79,140		239	3,183.0	5,100.0	2,966,500		11,068	200,265.5

For the Local Health Area:

$$PYLLI = \frac{O}{E} = \frac{\sum d_i \times (75 - Y_i)}{\sum e_i \times (75 - Y_i)} = \frac{223.5 + \ldots + 200.0}{766.3 + \ldots + 182.3} = \frac{3,183}{5,100} = 0.6$$

Where: O = observed PYLL;
E = expected PYLL;
d_i = observed deaths in age group i;
e_i = expected deaths in age group i;
Y_i = age at midpoint of age group i;
p_i = LHA population for age group i;
P_i = provincial population for age group i;
D_i = provincial deaths for age group i; and

1) Observed PYLL (O)

The number of potential years of life lost (PYLL) based on the number and age at death of deaths that occurred in the LHA. For example, for age group under one year of age, the observed PYLL are:
Observed PYLL = deaths × age factor = $d_i(75\text{-}Y_i) = 3 \times 74.5 = 223.5$

2) Expected PYLL (E)

The number of potential years of life lost (PYLL) expected for residents of the LHA based on the PYLL from the expected deaths in the age group. For example, for age group under one year of age, the expected PYLL are:

$$\text{Expected PYLL} = \text{expected deaths} \times \text{age factor} = e_i(75\text{-}Y_i) = \frac{D_i}{P_i} \times p_i \times (75\text{-}Y_i)$$

$$= \frac{328}{42,700} \times 1,339 \times 74.5 = 766.3$$

- **Standardized Mortality Ratio (SMR):**

Age Group (i)	LHA Estimated Population (p_i)	LHA Death Rate/1,000 (m_i)	LHA Observed Deaths (d_i)	LHA Expected Deaths (e_i)	British Columbia Estimated Population (P_i)	British Columbia Death Rate/1,000 (M_i)	British Columbia Observed Deaths (D_i)
<1	1,339	2.2	3	10.3	42,700	7.7	328
1–4	5,483	0.2	1	1.9	172,500	0.4	61
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
80–84	1,198	70.1	84	87.2	48,100	72.8	3,502
85 +	908	159.7	145	138.8	34,500	152.8	5,272
TOTAL	81,016		561	595.1	3,131,700		23,389

For the Local Health Area:

$$SMR = \frac{\sum d_i}{\sum e_i} = \frac{3 + \ldots + 145}{10.3 + \ldots + 138.8} = \frac{561}{595.1} = 0.9$$

Where: d_i = observed deaths in age group i; and
e_i = expected deaths in age group i.

1) Observed Deaths (d)

The actual number of deaths that occurred in the LHA. For example, for age group under one year of age, the observed deaths are three.

2) Expected Deaths (e)

The number of deaths expected for residents of the LHA based on the age specific mortality rates for the province as a whole and the population age structure of the LHA. For age group under one year, the expected deaths are:

$$e_i = \frac{D_i}{P_i} \times p_i = \frac{328}{42{,}700} \times 1{,}339 = 10.3$$

Where: p_i = LHA population for age group i;
D_i = provincial death for age group i; and
P_i = provincial population for age group i.

STATISTICAL TEST

- **P-VALUE**

The p-value is the probability of rejecting the null hypothesis when a specified test procedure is used on a given data set. This probability is the smallest level of significance at which the null hypothesis would be rejected. Once the p-value has been determined, the conclusion at any particular level α results from comparing the p-value to α (e.g., 0.05):

(a) p-value $\leq \alpha \Rightarrow$ reject null hypothesis at level α,

(b) p-value $> \alpha \Rightarrow$ do not reject the null hypothesis at level α,

and we call the data statistically significant when the null hypothesis is rejected and not significant otherwise.

Where: p_i = LHA population in age group i;
π_i = standard population in age group i;
$\prod = \Sigma\pi_i$ = total standard population;
d_i = deaths in LHA population in age group i;
Y_i = age at midpoint of age group i; and

- **Potential Years of Life Lost Index (PYLLI):**

		LHA					British Columbia			
Age Group (i)	Age Factor ($75-Y_i$)	Estimated Population (p_i)	Death Rate/1,000 (m_i)	Observed Deaths (d_i)	Observed PYLL ($d_i(75-Y_i)$)	Expected PYLL ($e_i(75-Y_i)$)	Estimated Population (P_i)	Death Rate/1,000 ($D_i/P_i \times 1{,}000$)	Observed Deaths (D_i)	Observed PYLL ($D_i(75-Y_i)$)
<1	74.5	1,339	2.2	3	223.5	766.3	42,700	7.7	328	24,436.0
1–4	72.0	5,483	0.2	1	72.0	139.6	172,500	0.4	61	4,392.0
5–9	67.5	6,553	0.2	1	67.5	96.6	215,100	0.2	47	3,172.5
.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
65–69	7.5	3,538	18.7	66	495.0	443.9	137,200	16.7	2,295	17,212.5
70–74	2.5	2,779	28.8	80	200.0	182.3	107,000	26.2	2,807	7,017.5
TOTAL	–	79,140		239	3,183.0	5,100.0	2,966,500		11,068	200,265.5

For the Local Health Area:

$$PYLLI = \frac{O}{E} = \frac{\Sigma d_i \times (75 - Y_i)}{\Sigma e_i \times (75 - Y_i)} = \frac{223.5 + \ldots + 200.0}{766.3 + \ldots + 182.3} = \frac{3{,}183}{5{,}100} = 0.6$$

Where: O = observed PYLL;
E = expected PYLL;
d_i = observed deaths in age group i;
e_i = expected deaths in age group i;
Y_i = age at midpoint of age group i;
p_i = LHA population for age group i;
P_i = provincial population for age group i;
D_i = provincial deaths for age group i; and

1) Observed PYLL (O)

The number of potential years of life lost (PYLL) based on the number and age at death of deaths that occurred in the LHA. For example, for age group under one year of age, the observed PYLL are:
Observed PYLL = deaths × age factor = $d_i(75\text{-}Y_i) = 3 \times 74.5 = 223.5$

2) Expected PYLL (E)

The number of potential years of life lost (PYLL) expected for residents of the LHA based on the PYLL from the expected deaths in the age group. For example, for age group under one year of age, the expected PYLL are:

$$\text{Expected PYLL} = \text{expected deaths} \times \text{age factor} = e_i(75\text{-}Y_i) = \frac{D_i}{P_i} \times p_i \times (75\text{-}Y_i)$$

$$= \frac{328}{42{,}700} \times 1{,}339 \times 74.5 = 766.3$$

- **Standardized Mortality Ratio (SMR):**

Age Group (i)	LHA Estimated Population (p_i)	LHA Death Rate/1,000 (m_i)	LHA Observed Deaths (d_i)	LHA Expected Deaths (e_i)	British Columbia Estimated Population (P_i)	British Columbia Death Rate/1,000 (M_i)	British Columbia Observed Deaths (D_i)
<1	1,339	2.2	3	10.3	42,700	7.7	328
1–4	5,483	0.2	1	1.9	172,500	0.4	61
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
80–84	1,198	70.1	84	87.2	48,100	72.8	3,502
85 +	908	159.7	145	138.8	34,500	152.8	5,272
TOTAL	81,016		561	595.1	3,131,700		23,389

For the Local Health Area:

$$SMR = \frac{\sum d_i}{\sum e_i} = \frac{3 + \ldots + 145}{10.3 + \ldots + 138.8} = \frac{561}{595.1} = 0.9$$

Where: d_i = observed deaths in age group i; and
e_i = expected deaths in age group i.

1) Observed Deaths (d)

The actual number of deaths that occurred in the LHA. For example, for age group under one year of age, the observed deaths are three.

2) Expected Deaths (e)

The number of deaths expected for residents of the LHA based on the age specific mortality rates for the province as a whole and the population age structure of the LHA. For age group under one year, the expected deaths are:

$$e_i = \frac{D_i}{P_i} \times p_i = \frac{328}{42,700} \times 1,339 = 10.3$$

Where: p_i = LHA population for age group i;
D_i = provincial death for age group i; and
P_i = provincial population for age group i.

STATISTICAL TEST

- **P-VALUE**

The p-value is the probability of rejecting the null hypothesis when a specified test procedure is used on a given data set. This probability is the smallest level of significance at which the null hypothesis would be rejected. Once the p-value has been determined, the conclusion at any particular level α results from comparing the p-value to α (e.g., 0.05):

(a) p-value $\leq \alpha \Rightarrow$ reject null hypothesis at level α,

(b) p-value $> \alpha \Rightarrow$ do not reject the null hypothesis at level α,

and we call the data statistically significant when the null hypothesis is rejected and not significant otherwise.

- For rates, such as ASMRs, the test employed to determine statistical significance is a confidence interval. The 95% confidence interval for the difference (D) between a LHA and a provincial rate is defined by the upper and lower limits of the interval as follows:

$$\textit{Lower Limit} = D - 1.96 \sqrt{\frac{R_l^2}{O_l} + \frac{R_p^2}{O_p}}$$

$$\textit{Upper Limit} = D + 1.96 \sqrt{\frac{R_l^2}{O_l} + \frac{R_p^2}{O_p}}$$

Where: R_l = Rate for LHA *l*;
R_p = Rate for the province;
O_l = Observed number for LHA *l*; and
O_p = Observed number for the province.

If the Lower Limit > 0, then R_l is statistically significantly higher than R_p;
if the Upper Limit < 0, then R_l is statistically significantly lower than R_p; otherwise,
there is no statistically significant difference.

- For ratios, such as SMRs, a Chi-square ($\chi 2$) test is applied to determine whether the observed number of cases is statistically significantly different from the expected number. For LHA *l*:

$$\chi_l^2 = \frac{(O_l - E_l)^2}{E_l}$$

(with one degree of freedom).

Where: O_l = Observed number for LHA *l*; and
E_l = Expected number for LHA *l*.

If $\chi_l^2 > 3.84$, the ratio is statistically significant at 5% significance level.

- For SMR values, the Chi-square statistic that is applied is:

$$\chi_l^2 = 9\hat{O}_l\left(1 - \frac{1}{9\hat{O}_l} - \left(\frac{E_l}{\hat{O}_l}\right)^{1/3}\right)^2$$

Where: $\hat{O}_l = O_l$ *if* $O_l > E_l$; *otherwise*
$\hat{O}_l = O_l + 1$.

STILLBIRTH

The complete expulsion or extraction from its mother after at least 20 weeks of pregnancy, or after attaining a weight of at least 500 grams, of a product of conception in which, after the expulsion or extraction, there is no breathing, beating of the heart, pulsation of the umbilical cord, or unmistakable movement of voluntary muscle.

The definition of a stillbirth has changed over the years. From July 1, 1962 until January 1, 1986, the definition of a stillbirth did not include the phrase "or after attaining a weight of at least 500 grams." For the earlier years shown in this report, prior to July 1, 1962, the definition of a stillbirth was: the birth of a viable fetus after at least 28 weeks pregnancy in which pulmonary respiration does not occur, whether death occurs before, during, or after birth.

STILLBIRTH RATE

(See **Crude Rates.**)

TEENAGE MOTHERS

Mothers less than 20 years of age.

TERM

(See **Gestational Age**.)

TFR

(See **Total Fertility Rate.**)

TOTAL BIRTHS

The number of live births plus stillbirths.

TOTAL FERTILITY RATE (TFR)

The rate is calculated by summing all of the age-specific birth rates multiplied by the number of years by which the age-specific birth rates are grouped (this assumes the same number of women in each age group). "The total fertility rate indicates the number of births that a group of 1,000 women would have if they experienced, during their childbearing years (i.e., age 15 to 44 years), the age-specific birth rates observed in a given calendar year. It is a hypothetical measure that shows the implications of current levels of fertility by age for completed family size." (National Center for Health Statistics. Supplements to the monthly vital statistics report: advance reports, 1987. National Center for Health Statistics. Vital Health Stat 24 (4) p. 5. 1990.)

(See **Statistical Computation** for an example.)

TOTAL PYLL

The total number of years of life lost prior to an established cut-off point of 75 years.

TREND ANALYSIS

Appendix 3 presents summaries of various health status indicators by local health area and health region. In order to identify significant trends in ASMRs in the 1986 to 1999 period, this annual report used a statistical technique called linear regression. The use of the linear regression model was not intended for predictive purposes; rather the methodology was intended only to provide a description of the trend in ASMRs over the time period.

Data for individual years contain a certain amount of stochastic variability; especially when data consists of small numbers, the stochastic variability can reduce the reliability of using a linear regression model to describe time series data. In order to dampen the effects of stochastic variability in the ASMRs, a three-year moving average process was applied to create 12 smoothed data points for years 1986 to 1999 (i.e., the moving averages were calculated for the periods 1986–1988, 1987–1989, ..., 1997–1999). A linear regression was then calculated in the form:

$$y_i = a + \beta x_i + e_i$$

Where:
- y_i = ASMR for the i^{th} three-year period;
- x_i = the i^{th} three-year period;
- β = estimated slope ($\hat{\beta}$) of the regression;
- a = intercept of the regression; and
- e_i = error.

The slope of this regression line was tested at the 5% level and the trend was described as follows:

i) if $\hat{\beta}$ is statistically significantly positive, the trend is increasing ↗ ; and

ii) if $\hat{\beta}$ is statistically significantly negative, the trend is decreasing ↘ .

Trends were not shown for areas with an average of less than 1 death per year in the 14-year period, 1986 to 1999.

VERY LOW BIRTH WEIGHT

A birth weight of less than 1,500 grams.

UCOD

(See **Underlying Cause of Death.**)

UNDERLYING CAUSE OF DEATH (UCOD)

The underlying cause of death is the disease which triggered the chain of events leading directly to the death or the description of the accident or violence that produced the fatality (World Health Organization, 1977).

References

List of Reports and Publications, 1999 and 2000 to Date

The Vital Statistics Agency continues to be actively involved in the preparation of various reports and publications that present and analyze British Columbia's vital event data. These studies, reports, and periodicals are intended as research tools to assist health planners, researchers, and health care administrators. Agency publications are available upon request from the BC Vital Statistics Agency, and can be viewed on the Agency's website (http://www.hlth.gov.bc.ca/vs/stats/index.html).

Following is a list of the most recent publications by the Agency.

British Columbia Vital Statistics Agency, Ministry of Health (produced for Medical Services Branch of Health Canada). *Analysis of Status Indians in British Columbia: Updated Report, 1991–1998.*

British Columbia Vital Statistics Agency, Ministry of Health. *Pregnancy Counts and Rates by Age Groups by Health Region, British Columbia, 1990/1991 to 1998/1999.*

British Columbia Vital Statistics Agency, Ministry of Health. *Pregnancy Counts and Rates by Age Groups by Local Health Area, British Columbia, 1990/1991 to 1998/1999.*

British Columbia Vital Statistics Agency, Ministry of Health. *Selected Vital Statistics and Health Status Indicators: One Hundred Twenty-Seventh Annual Report 1998.*

Kashaninia, Z. "Fire Deaths in British Columbia, 1986 to 1998," *Quarterly Digest*, 9 (3), March, 2000.

Kashaninia, Z., J. Macdonald, R. Armour. "Drowning and Other Water-Related Accidental Fatalities, British Columbia, 1990 to 1998," *Quarterly Digest*, 9 (1 & 2), October, 1999.

Stubbings, T., J. Macdonald. "Beautiful and Deadly British Columbia: Natural Environmental Deaths, 1985 to 1998," *Quarterly Digest*, 9 (4), June, 2000.

Internet Sources of Vital Statistics Information

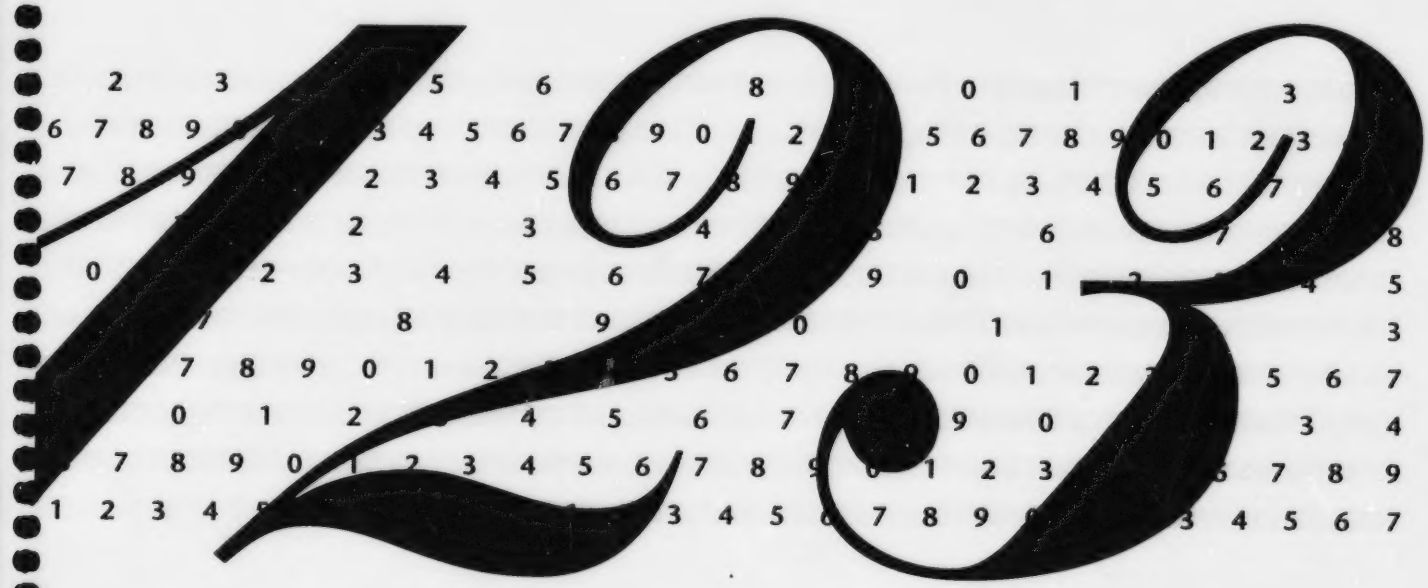
The Agency's Information and Resource Management branch web pages (http://www.hlth.gov.bc.ca/vs/stats/index.html) include copies of recent annual reports, quarterly reports (*Quarterly Digest* tables and articles), health status indicators, popular baby names, and feature reports including the *Analysis of Status Indians in British Columbia*. Copies of most reports can be downloaded from the Portable Document Files pages.

Vital statistics mortality data is also available on the Ministry of Health's Health Data Warehouse website (http://www.hdw.moh.hnet.bc.ca/). Access to this Ministry intranet site is limited to authorized users; for further information on access policies, please refer to: http: /admin.moh.hnet.bc.ca/hdw/index.html.

The BC STATS website (http://www.bcstats.gov.bc.ca/data/pop/popstart.htm) presents statistics derived from vital statistics data, including fertility rates, estimates of life expectancy, and rates of natural population increase. BC STATS produces all population estimates used in Agency reports; these estimates and other population data can be downloaded from their website.

Appendix 1

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY, BRITISH COLUMBIA, 1999



Preamble to Appendix 1

British Columbia is a large, geographically diverse province. The majority of the population is concentrated in the southwestern corner of the province. Much of the rest of the province is sparsely populated with the majority of the remaining population concentrated in the major cities of Prince George, Kelowna, Kamloops, and Nanaimo, or along the border with the United States. Health care services tend to be concentrated in the areas of greater population, with the tertiary care facilities in the metropolitan areas of Vancouver and Victoria.

Appendix 1 provides summary details of the 1999 vital statistics for the health regions (HR), local health areas (LHA), and for incorporated communities within each LHA. HRs and LHAs correspond to, or can be aggregated to, the boundaries of the regional health authorities. Information presented includes the number of live births, deaths, marriages, and stillbirths by gender, which occurred in the HRs and LHAs. Live births and stillbirths are assigned to the usual residence of the mother. Deaths are assigned according to the usual residence of the decedent. Marriages are based on the place where the marriage ceremony was performed.

Population and the five-year average 1995–1999 life expectancy data were produced by BC STATS.

M121

IMPORTANT NOTE CONCERNING THE FOLLOWING PAGES

THE PAGES WHICH FOLLOW HAVE BEEN FILMED TWICE IN ORDER TO OBTAIN THE BEST REPRODUCTIVE QUALITY

USERS SHOULD CONSULT ALL THE PAGES REPRODUCED ON THE FICHE IN ORDER TO OBTAIN A COMPLETE READING OF THE TEXT.

REMARQUE IMPORTANTE CONCERNANT LES PAGES QUI SUIVENT

LES PAGES SUIVANTES ONT ÉTÉ REPRODUITES EN DOUBLE AFIN D'AMÉLIORER LA QUALITÉ DE REPRODUCTION

LES UTILISATEURS DOIVENT CONSULTER TOUTES LES PAGES REPRODUITES SUR LA FICHE AFIN D'OBTENIR LA LECTURE DU TEXTE INTÉGRAL

micromedia
a division of IHS Canada

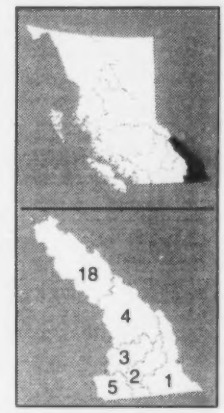
20 Victoria Street
Toronto, Ontario M5C 2N8
Tel.: (416) 362-5211
Toll Free: 1-800-387-2689
Fax: (416) 362-6161
Email: info@micromedia.on.ca

APPENDIX 1

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

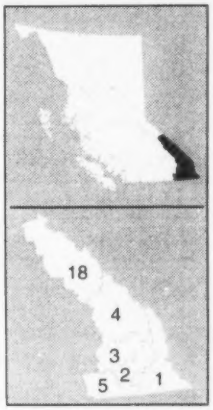
BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
HR 01 EAST KOOTNEY									
LHA 001 Fernie		M	8,585	63	40		–	34.9	77.7
		F	7,953	67	31		–	35.4	82.5
		T	16,538	130	71	82	–	35.1	80.0
Elkford	DM	M		11	2		–		
		F		18	1		–		
		T	2,805	29	3	11	–		
Fernie	C	M		21	18		–		
		F		22	18		–		
		T	5,203	43	36	49	–		
Sparwood	DM	M		22	14		–		
		F		17	11		–		
		T	4,163	39	25	8	–		
LHA 002 Cranbrook		M	13,095	141	83		1	35.5	76.6
		F	13,153	107	82		–	36.8	80.3
		T	26,248	248	165	130	1	36.2	78.4
Cranbrook	C	M		136	77		1		
		F		106	78		–		
		T	19,797	242	155	119	1		
LHA 003 Kimberley		M	4,489	26	51		–	39.9	76.2
		F	4,458	37	37		–	42.0	84.0
		T	8,947	63	88	49	–	40.9	79.8
Kimberley	C	M		22	43		–		
		F		35	36		–		
		T	6,916	57	79	45	–		
LHA 004 Windermere		M	4,816	36	38		–	36.6	78.4
		F	4,614	41	20		–	37.4	88.0
		T	9,430	77	58	87	–	37.0	82.2
Invermere	DM	M		14	20		–		
		F		23	13		–		
		T	2,947	37	33	25	–		
Radium Hot Springs	VL	M		6	1		–		
		F		3	2		–		
		T	605	9	3	10	–		
LHA 005 Creston		M	6,497	75	71		–	40.5	76.3
		F	6,655	71	67		–	42.3	82.8
		T	13,152	146	138	55	–	41.4	79.4
Creston	T	M		37	53		–		
		F		43	52		–		
		T	5,089	80	105	35	–		
LHA 018 Golden		M	4,027	39	21		–	34.2	76.2
		F	3,749	44	9		–	34.0	80.9
		T	7,776	83	30	75	–	34.1	78.3
Golden	T	M		35	19		–		
		F		42	9		–		
		T	4,193	77	28	40	–		
HR 01 TOTAL		**M**	**41,509**	**380**	**304**		**1**	**36.6**	**76.7**
		F	**40,582**	**367**	**246**		**–**	**37.8**	**82.1**
		T	**82,091**	**747**	**550**	**478**	**1**	**37.2**	**79.3**



APPENDIX 1
STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY
BRITISH COLUMBIA, 1999

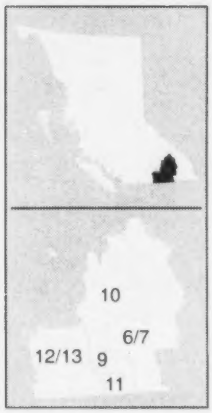
Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
HR 01 EAST KOOTNEY									
LHA 001 Fernie		M	8,585	63	40		–	34.9	77.7
		F	7,953	67	31		–	35.4	82.5
		T	16,538	130	71	82	–	35.1	80.0
Elkford	DM	M		11	2		–		
		F		18	1		–		
		T	2,805	29	3	11	–		
Fernie	C	M		21	18		–		
		F		22	18		–		
		T	5,203	43	36	49	–		
Sparwood	DM	M		22	14		–		
		F		17	11		–		
		T	4,163	39	25	8	–		
LHA 002 Cranbrook		M	13,095	141	83		1	35.5	76.6
		F	13,153	107	82		–	36.8	80.3
		T	26,248	248	165	130	1	36.2	78.4
Cranbrook	C	M		136	77		1		
		F		106	78		–		
		T	19,797	242	155	119	1		
LHA 003 Kimberley		M	4,489	26	51		–	39.9	76.2
		F	4,458	37	37		–	42.0	84.0
		T	8,947	63	88	49	–	40.9	79.8
Kimberley	C	M		22	43		–		
		F		35	36		–		
		T	6,916	57	79	45	–		
LHA 004 Windermere		M	4,816	36	38		–	36.6	78.4
		F	4,614	41	20		–	37.4	88.0
		T	9,430	77	58	87	–	37.0	82.2
Invermere	DM	M		14	20		–		
		F		23	13		–		
		T	2,947	37	33	25	–		
Radium Hot Springs	VL	M		6	1		–		
		F		3	2		–		
		T	605	9	3	10	–		
LHA 005 Creston		M	6,497	75	71		–	40.5	76.3
		F	6,655	71	67		–	42.3	82.8
		T	13,152	146	138	55	–	41.4	79.4
Creston	T	M		37	53		–		
		F		43	52		–		
		T	5,089	80	105	35	–		
LHA 018 Golden		M	4,027	39	21		–	34.2	76.2
		F	3,749	44	9		–	34.0	80.9
		T	7,776	83	30	75	–	34.1	78.3
Golden	T	M		35	19		–		
		F		42	9		–		
		T	4,193	77	28	40	–		
HR 01 TOTAL		**M**	**41,509**	**380**	**304**		**1**	**36.6**	**76.7**
		F	**40,582**	**367**	**246**		**–**	**37.8**	**82.1**
		T	**82,091**	**747**	**550**	**478**	**1**	**37.2**	**79.3**



APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999



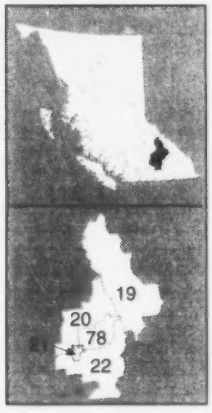
Health Region/ Local Health Area/ Community (Incorporated Only)	Type †	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
HR 02 WEST KOOTENAY – BOUNDARY									
LHA 006 Kootenay Lake		M	1,956	19	22		–	39.1	73.1
		F	1,877	14	8		–	40.2	95.5
		T	3,833	33	30	24	–	39.6	80.4
Kaslo	VL	M		6	12		–		
		F		6	6		–		
		T	1,106	12	18	18	–		
LHA 007 Nelson		M	12,627	107	101		1	37.0	75.9
		F	12,708	105	78		–	38.5	81.6
		T	25,335	212	179	128	1	37.7	78.7
Nelson	C	M		69	73		–		
		F		61	60		–		
		T	9,694	130	133	91	–		
Salmo	VL	M		8	7		–		
		F		8	8		–		
		T	1,256	16	15	9	–		
Slocan	VL	M		–	3		1		
		F		1	–		–		
		T	339	1	3	3	1		
LHA 009 Castlegar		M	6,929	65	52		–	37.3	74.7
		F	6,896	57	45		–	38.5	81.8
		T	13,825	122	97	64	–	37.9	78.1
Castlegar	C	M		57	47		–		
		F		53	39		–		
		T	7,393	110	86	46	–		
LHA 010 Arrow Lakes		M	2,770	19	30		–	38.6	77.2
		F	2,615	30	20		–	40.5	79.6
		T	5,385	49	50	28	–	39.5	78.4
Nakusp	VL	M		12	16		–		
		F		15	10		–		
		T	1,788	27	26	19	–		
New Denver	VL	M		3	6		–		
		F		2	7		–		
		T	612	5	13	5	–		
Silverton	VL	M		1	4		–		
		F		5	–		–		
		T	240	6	4	1	–		
LHA 011 Trail		M	10,239	111	89		1	38.6	74.7
		F	10,700	60	89		–	41.0	81.0
		T	20,939	171	178	77	1	39.8	77.8
Fruitvale	VL	M		26	4		–		
		F		12	8		–		
		T	2,153	38	12	17	–		
Montrose	VL	M		12	6		–		
		F		2	5		–		
		T	1,169	14	11	2	–		
Rossland	C	M		24	14		1		
		F		17	15		–		
		T	3,859	41	29	15	1		
Trail	C	M		32	56		–		
		F		25	50		–		
		T	7,626	57	106	40	–		
Warfield	VL	M		15	6		–		
		F		3	10		–		
		T	1,800	18	16	2	–		

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

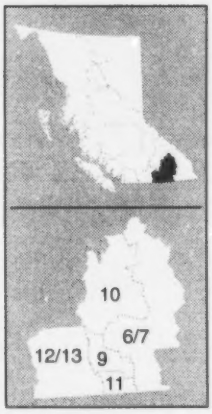
Health Region/ Local Health Area/ Community (Incorporated Only)	Type[1]	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
LHA 012 Grand Forks		M	4,736	27	39		–	40.6	75.3
		F	4,632	37	42		1	42.6	81.4
		T	9,368	64	81	43	1	41.6	78.2
Grand Forks	C	M		25	32		–		
		F		33	37		1		
		T	4,320	58	69	36	1		
LHA 013 Kettle Valley		M	2,014	15	12		–	39.0	79.1
		F	1,815	14	7		1	39.3	79.5
		T	3,829	29	19	8	1	39.1	81.9
Greenwood	C	M		5	6		–		
		F		6	5		–		
		T	761	11	11	3	–		
Midway	VL	M		4	1		–		
		F		3	–		1		
		T	686	7	1	–	1		
HR 02 TOTAL		**M**	**41,271**	**363**	**345**		**2**	**38.1**	**75.1**
		F	**41,243**	**317**	**289**		**2**	**39.8**	**81.3**
		T	**82,514**	**680**	**634**	**372**	**4**	**39.0**	**78.1**
HR 03 NORTH OKANAGAN									
LHA 019 Revelstoke		M	4,451	35	39		–	35.2	73.6
		F	4,287	36	23		–	35.9	80.0
		T	8,738	71	62	38	–	35.5	76.6
Revelstoke	C	M		35	39		–		
		F		36	23		–		
		T	8,226	71	62	37	–		
LHA 020 Salmon Arm		M	16,555	128	161		1	39.4	77.0
		F	16,578	115	113		–	41.3	82.3
		T	33,133	243	274	179	1	40.3	79.5
Salmon Arm	DM	M		93	106		1		
		F		72	79		–		
		T	16,285	165	185	107	1		
Sicamous	DM	M		11	18		–		
		F		16	10		–		
		T	3,165	27	28	34	–		
LHA 021 Armstrong–Spallumcheen		M	4,901	46	48		–	37.2	76.5
		F	5,003	44	26		–	38.5	81.8
		T	9,904	90	74	30	–	37.8	79.0
Armstrong/ Spallumcheen	C/ DM	M		46	48		–		
		F		44	26		–		
		T	9,904	90	74	30	–		
LHA 022 Vernon		M	28,937	285	288		3	38.1	76.2
		F	30,045	252	244		2	40.3	81.4
		T	58,982	537	532	282	5	39.2	78.8
Coldstream	DM	M		30	21		1		
		F		29	22		–		
		T	9,551	59	43	45	1		
Lumby	VL	M		26	27		–		
		F		30	13		–		
		T	1,760	56	40	14	–		
Vernon	C	M		195	220		1		
		F		176	200		2		
		T	34,227	371	420	206	3		



APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999



Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
HR 02 WEST KOOTENAY – BOUNDARY									
LHA 006 Kootenay Lake		M	1,956	19	22		–	39.1	73.1
		F	1,877	14	8		–	40.2	95.5
		T	3,833	33	30	24	–	39.6	80.4
Kaslo	VL	M		6	12		–		
		F		6	6		–		
		T	1,106	12	18	18	–		
LHA 007 Nelson		M	12,627	107	101		1	37.0	75.9
		F	12,708	105	78		–	38.5	81.6
		T	25,335	212	179	128	1	37.7	78.7
Nelson	C	M		69	73		–		
		F		61	60		–		
		T	9,694	130	133	91	–		
Salmo	VL	M		8	7		–		
		F		8	8		–		
		T	1,256	16	15	9	–		
Slocan	VL	M		–	3		1		
		F		1	–		–		
		T	339	1	3	3	1		
LHA 009 Castlegar		M	6,929	65	52		–	37.3	74.7
		F	6,896	57	45		–	38.5	81.8
		T	13,825	122	97	64	–	37.9	78.1
Castlegar	C	M		57	47		–		
		F		53	39		–		
		T	7,393	110	86	46	–		
LHA 010 Arrow Lakes		M	2,770	19	30		–	38.6	77.2
		F	2,615	30	20		–	40.5	79.6
		T	5,385	49	50	28	–	39.5	78.4
Nakusp	VL	M		12	16		–		
		F		15	10		–		
		T	1,788	27	26	19	–		
New Denver	VL	M		3	6		–		
		F		2	7		–		
		T	612	5	13	5	–		
Silverton	VL	M		1	4		–		
		F		5	–		–		
		T	240	6	4	1	–		
LHA 011 Trail		M	10,239	111	89		1	38.6	74.7
		F	10,700	60	89		–	41.0	81.0
		T	20,939	171	178	77	1	39.8	77.8
Fruitvale	VL	M		26	4		–		
		F		12	8		–		
		T	2,153	38	12	17	–		
Montrose	VL	M		12	6		–		
		F		2	5		–		
		T	1,169	14	11	2	–		
Rossland	C	M		24	14		1		
		F		17	15		–		
		T	3,859	41	29	15	1		
Trail	C	M		32	56		–		
		F		25	50		–		
		T	7,626	57	106	40	–		
Warfield	VL	M		15	6		–		
		F		3	10		–		
		T	1,800	18	16	2	–		

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

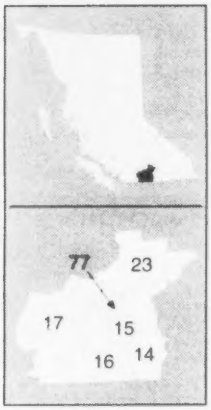
Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
LHA 012 Grand Forks		**M**	**4,736**	**27**	**39**		**–**	**40.6**	**75.3**
		F	**4,632**	**37**	**42**		**1**	**42.6**	**81.4**
		T	**9,368**	**64**	**81**	**43**	**1**	**41.6**	**78.2**
Grand Forks	C	M		25	32		–		
		F		33	37		1		
		T	4,320	58	69	36	1		
LHA 013 Kettle Valley		**M**	**2,014**	**15**	**12**		**–**	**39.0**	**79.1**
		F	**1,815**	**14**	**7**		**1**	**39.3**	**79.5**
		T	**3,829**	**29**	**19**	**8**	**1**	**39.1**	**81.9**
Greenwood	C	M		5	6		–		
		F		6	5		–		
		T	761	11	11	3	–		
Midway	VL	M		4	1		–		
		F		3	–		1		
		T	686	7	1	–	1		
HR 02 TOTAL		**M**	**41,271**	**363**	**345**		**2**	**38.1**	**75.1**
		F	**41,243**	**317**	**289**		**2**	**39.8**	**81.3**
		T	**82,514**	**680**	**634**	**372**	**4**	**39.0**	**78.1**
HR 03 NORTH OKANAGAN									
LHA 019 Revelstoke		**M**	**4,451**	**35**	**39**		**–**	**35.2**	**73.6**
		F	**4,287**	**36**	**23**		**–**	**35.9**	**80.0**
		T	**8,738**	**71**	**62**	**38**	**–**	**35.5**	**76.6**
Revelstoke	C	M		35	39		–		
		F		36	23		–		
		T	8,226	71	62	37	–		
LHA 020 Salmon Arm		**M**	**16,555**	**128**	**161**		**1**	**39.4**	**77.0**
		F	**16,578**	**115**	**113**		**–**	**41.3**	**82.3**
		T	**33,133**	**243**	**274**	**179**	**1**	**40.3**	**79.5**
Salmon Arm	DM	M		93	106		1		
		F		72	79		–		
		T	16,285	165	185	107	1		
Sicamous	DM	M		11	18		–		
		F		16	10		–		
		T	3,165	27	28	34	–		
LHA 021 Armstrong–Spallumcheen		**M**	**4,901**	**46**	**48**		**–**	**37.2**	**76.5**
		F	**5,003**	**44**	**26**		**–**	**38.5**	**81.8**
		T	**9,904**	**90**	**74**	**30**	**–**	**37.8**	**79.0**
Armstrong/ Spallumcheen	C/ DM	M		46	48		–		
		F		44	26		–		
		T	9,904	90	74	30	–		
LHA 022 Vernon		**M**	**28,937**	**285**	**288**		**3**	**38.1**	**76.2**
		F	**30,045**	**252**	**244**		**2**	**40.3**	**81.4**
		T	**58,982**	**537**	**532**	**282**	**5**	**39.2**	**78.8**
Coldstream	DM	M		30	21		1		
		F		29	22		–		
		T	9,551	59	43	45	1		
Lumby	VL	M		26	27		–		
		F		30	13		–		
		T	1,760	56	40	14	–		
Vernon	C	M		195	220		1		
		F		176	200		2		
		T	34,227	371	420	206	3		

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
LHA 078 Enderby		M	3,880	34	39		1	37.7	73.2
		F	3,874	30	26		–	39.2	81.8
		T	7,754	64	65	29	1	38.4	77.2
Enderby	C	M		31	36		1		
		F		23	25		–		
		T	2,909	54	61	23	1		
HR 03 TOTAL		**M**	**58,724**	**528**	**575**		**5**	**38.1**	**76.3**
		F	**59,787**	**477**	**432**		**2**	**40.0**	**81.5**
		T	**118,511**	**1,005**	**1,007**	**558**	**7**	**39.1**	**78.8**
HR 04 SOUTH OKANAGAN SIMILKAMEEN									
LHA 014 Southern Okanagan		M	9,167	67	130		–	45.0	76.6
		F	9,531	73	111		1	46.4	81.5
		T	18,698	140	241	83	1	45.7	79.0
Oliver	T	M		38	69		–		
		F		47	58		1		
		T	4,385	85	127	32	1		
Osoyoos	T	M		20	33		–		
		F		18	40		–		
		T	4,415	38	73	36	–		
LHA 015 Penticton		M	19,342	160	244		2	41.1	76.9
		F	20,973	179	204		–	43.8	82.7
		T	40,315	339	448	228	2	42.5	79.8
Penticton	C	M		140	237		2		
		F		159	194		–		
		T	32,627	299	431	187	2		
LHA 016 Keremeos		M	2,388	16	26		–	44.2	73.5
		F	2,331	24	19		1	44.0	83.8
		T	4,719	40	45	25	1	44.1	78.1
Keremeos	VL	M		8	22		–		
		F		14	14		–		
		T	1,190	22	36	16	–		
LHA 017 Princeton		M	2,667	22	26		–	41.1	74.8
		F	2,562	14	27		–	41.2	78.3
		T	5,229	36	53	32	–	41.1	76.5
Princeton	T	M		21	24		–		
		F		14	26		–		
		T	2,981	35	50	27	–		
LHA 023 Central Okanagan		M	73,728	699	660		7	38.4	78.1
		F	77,022	705	570		1	40.5	83.8
		T	150,750	1,404	1,230	938	8	39.5	81.0
Kelowna	C	M		491	474		5		
		F		482	433		1		
		T	97,385	973	907	720	6		
Lake Country	DM	M		34	28		1		
		F		49	16		–		
		T	9,532	83	44	45	1		
Peachland	DM	M		18	22		–		
		F		13	15		–		
		T	4,833	31	37	26	–		
LHA 077 Summerland		M	5,492	45	80		–	42.6	78.3
		F	5,922	41	75		1	44.8	80.5
		T	11,414	86	155	68	1	43.7	79.4

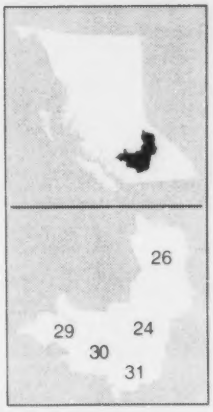


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
Summerland	DM	M		45	80		–		
		F		41	75		1		
		T	10,856	86	155	68	1		
HR 04 TOTAL		**M**	**112,784**	**1,009**	**1,166**		**9**	**39.8**	**77.2**
		F	**118,341**	**1,036**	**1,006**		**4**	**41.9**	**83.0**
		T	**231,125**	**2,045**	**2,172**	**1,374**	**13**	**40.8**	**80.0**
HR 05 THOMPSON									
LHA 024 Kamloops		M	52,764	494	384		2	36.1	75.3
		F	52,828	444	308		4	37.2	80.8
		T	105,592	938	692	552	6	36.6	78.0
Chase	VL	M		27	28		–		
		F		19	16		–		
		T	2,571	46	44	29	–		
Kamloops	C	M		408	302		2		
		F		363	269		4		
		T	81,958	771	571	460	6		
Logan Lake	DM	M		11	7		–		
		F		1	3		–		
		T	2,516	12	10	10	–		
LHA 026 North Thompson		M	2,740	21	16		–	34.2	72.4
		F	2,584	30	8		1	34.0	82.4
		T	5,324	51	24	34	1	34.1	77.2
LHA 029 Lillooet		M	2,556	38	20		1	33.6	71.4
		F	2,345	29	17		–	34.6	80.5
		T	4,901	67	37	23	1	34.1	75.5
Lillooet	DM	M		31	18		1		
		F		26	13		–		
		T	2,971	57	31	17	1		
LHA 030 South Cariboo		M	4,073	33	30		–	38.0	71.9
		F	3,800	34	15		–	37.5	81.9
		T	7,873	67	45	32	–	37.7	76.1
Ashcroft	VL	M		13	11		–		
		F		7	3		–		
		T	1,974	20	14	8	–		
Cache Creek	VL	M		3	6		–		
		F		7	4		–		
		T	1,145	10	10	4	–		
Clinton	VL	M		6	5		–		
		F		8	2		–		
		T	737	14	7	11	–		
Lytton	VL	M		9	7		–		
		F		11	5		–		
		T	320	20	12	8	–		
LHA 031 Merritt		M	6,200	56	53		–	34.3	72.2
		F	6,000	45	29		–	35.2	79.3
		T	12,200	101	82	82	–	34.7	75.5
Merritt	C	M		36	45		–		
		F		32	25		–		
		T	8,054	68	70	45	–		
HR 05 TOTAL		**M**	**68,333**	**642**	**503**		**3**	**35.8**	**74.3**
		F	**67,557**	**582**	**377**		**5**	**36.9**	**80.7**
		T	**135,890**	**1,224**	**880**	**723**	**8**	**36.3**	**77.4**

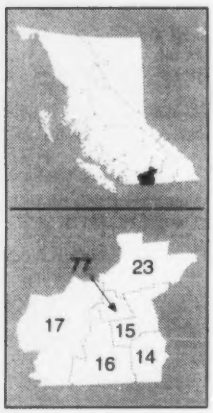


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
LHA 078 Enderby		**M**	**3,880**	**34**	**39**		**1**	**37.7**	**73.2**
		F	**3,874**	**30**	**26**		**–**	**39.2**	**81.8**
		T	**7,754**	**64**	**65**	**29**	**1**	**38.4**	**77.2**
Enderby	C	M		31	36		1		
		F		23	25		–		
		T	2,909	54	61	23	1		
HR 03 TOTAL		**M**	**58,724**	**528**	**575**		**5**	**38.1**	**76.3**
		F	**59,787**	**477**	**432**		**2**	**40.0**	**81.5**
		T	**118,511**	**1,005**	**1,007**	**558**	**7**	**39.1**	**78.8**
HR 04 SOUTH OKANAGAN SIMILKAMEEN									
LHA 014 Southern Okanagan		**M**	**9,167**	**67**	**130**		**–**	**45.0**	**76.6**
		F	**9,531**	**73**	**111**		**1**	**46.4**	**81.5**
		T	**18,698**	**140**	**241**	**83**	**1**	**45.7**	**79.0**
Oliver	T	M		38	69		–		
		F		47	58		1		
		T	4,385	85	127	32	1		
Osoyoos	T	M		20	33		–		
		F		18	40		–		
		T	4,415	38	73	36	–		
LHA 015 Penticton		**M**	**19,342**	**160**	**244**		**2**	**41.1**	**76.9**
		F	**20,973**	**179**	**204**		**–**	**43.8**	**82.7**
		T	**40,315**	**339**	**448**	**228**	**2**	**42.5**	**79.8**
Penticton	C	M		140	237		2		
		F		159	194		–		
		T	32,627	299	431	187	2		
LHA 016 Keremeos		**M**	**2,388**	**16**	**26**		**–**	**44.2**	**73.5**
		F	**2,331**	**24**	**19**		**1**	**44.0**	**83.8**
		T	**4,719**	**40**	**45**	**25**	**1**	**44.1**	**78.1**
Keremeos	VL	M		8	22		–		
		F		14	14		–		
		T	1,190	22	36	16	–		
LHA 017 Princeton		**M**	**2,667**	**22**	**26**		**–**	**41.1**	**74.8**
		F	**2,562**	**14**	**27**		**–**	**41.2**	**78.3**
		T	**5,229**	**36**	**53**	**32**	**–**	**41.1**	**76.5**
Princeton	T	M		21	24		–		
		F		14	26		–		
		T	2,981	35	50	27	–		
LHA 023 Central Okanagan		**M**	**73,728**	**699**	**660**		**7**	**38.4**	**78.1**
		F	**77,022**	**705**	**570**		**1**	**40.5**	**83.8**
		T	**150,750**	**1,404**	**1,230**	**938**	**8**	**39.5**	**81.0**
Kelowna	C	M		491	474		5		
		F		482	433		1		
		T	97,385	973	907	720	6		
Lake Country	DM	M		34	28		1		
		F		49	16		–		
		T	9,532	83	44	45	1		
Peachland	DM	M		18	22		–		
		F		13	15		–		
		T	4,833	31	37	26	–		
LHA 077 Summerland		**M**	**5,492**	**45**	**80**		**–**	**42.6**	**78.3**
		F	**5,922**	**41**	**75**		**1**	**44.8**	**80.5**
		T	**11,414**	**86**	**155**	**68**	**1**	**43.7**	**79.4**

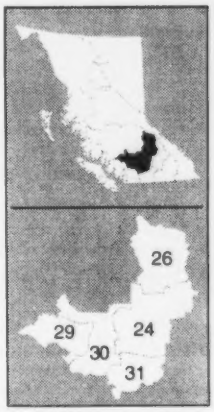


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
Summerland	DM	M		45	80		–		
		F		41	75		1		
		T	10,856	86	155	68	1		
HR 04 TOTAL		**M**	**112,784**	**1,009**	**1,166**		**9**	**39.8**	**77.2**
		F	**118,341**	**1,036**	**1,006**		**4**	**41.9**	**83.0**
		T	**231,125**	**2,045**	**2,172**	**1,374**	**13**	**40.8**	**80.0**
HR 05 THOMPSON									
LHA 024 Kamloops		M	52,764	494	384		2	36.1	75.3
		F	52,828	444	308		4	37.2	80.8
		T	105,592	938	692	552	6	36.6	78.0
Chase	VL	M		27	28		–		
		F		19	16		–		
		T	2,571	46	44	29	–		
Kamloops	C	M		408	302		2		
		F		363	269		4		
		T	81,958	771	571	460	6		
Logan Lake	DM	M		11	7		–		
		F		1	3		–		
		T	2,516	12	10	10	–		
LHA 026 North Thompson		M	2,740	21	16		–	34.2	72.4
		F	2,584	30	8		1	34.0	82.4
		T	5,324	51	24	34	1	34.1	77.2
LHA 029 Lillooet		M	2,556	38	20		1	33.6	71.4
		F	2,345	29	17		–	34.6	80.5
		T	4,901	67	37	23	1	34.1	75.5
Lillooet	DM	M		31	18		1		
		F		26	13		–		
		T	2,971	57	31	17	1		
LHA 030 South Cariboo		M	4,073	33	30		–	38.0	71.9
		F	3,800	34	15		–	37.5	81.9
		T	7,873	67	45	32	–	37.7	76.1
Ashcroft	VL	M		13	11		–		
		F		7	3		–		
		T	1,974	20	14	8	–		
Cache Creek	VL	M		3	6		–		
		F		7	4		–		
		T	1,145	10	10	4	–		
Clinton	VL	M		6	5		–		
		F		8	2		–		
		T	737	14	7	11	–		
Lytton	VL	M		9	7		–		
		F		11	5		–		
		T	320	20	12	8	–		
LHA 031 Merritt		M	6,200	56	53		–	34.3	72.2
		F	6,000	45	29		–	35.2	79.3
		T	12,200	101	82	82	–	34.7	75.5
Merritt	C	M		36	45		–		
		F		32	25		–		
		T	8,054	68	70	45	–		
HR 05 TOTAL		**M**	**68,333**	**642**	**503**		**3**	**35.8**	**74.3**
		F	**67,557**	**582**	**377**		**5**	**36.9**	**80.7**
		T	**135,890**	**1,224**	**880**	**723**	**8**	**36.3**	**77.4**

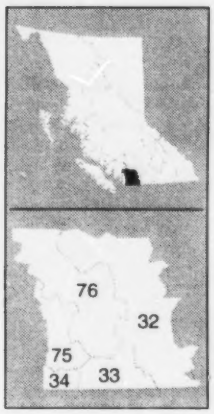


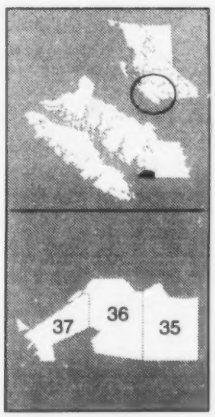
APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type[1]	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
HR 06 FRASER VALLEY									
LHA 032 Hope		M	4,244	36	46		–	38.6	70.0
		F	4,216	38	33		–	39.4	80.2
		T	8,460	74	79	43	–	39.0	74.6
Hope	DM	M		28	41		–		
		F		33	30		–		
		T	6,826	61	71	37	–		
LHA 033 Chilliwack		M	35,386	423	301		3	36.0	75.5
		F	36,157	432	301		1	38.0	81.2
		T	71,543	855	602	377	4	37.0	78.4
Chilliwack	C	M		398	278		3		
		F		404	279		1		
		T	65,263	802	557	354	4		
LHA 034 Abbotsford		M	57,269	812	434		6	34.6	77.7
		F	57,766	742	372		5	36.9	81.9
		T	115,035	1,554	806	536	11	35.7	79.8
City of Abbotsford	C	M		810	432		6		
		F		739	371		5		
		T	114,216	1,549	803	536	11		
LHA 075 Mission		M	19,084	228	138		3	34.0	75.6
		F	18,242	237	114		3	35.1	79.3
		T	37,326	465	252	199	6	34.5	77.4
Mission	DM	M		219	128		2		
		F		220	108		3		
		T	32,660	439	236	195	5		
LHA 076 Agassiz–Harrison		M	4,533	39	42		–	36.4	73.2
		F	3,614	34	21		–	37.7	81.2
		T	8,147	73	63	96	–	37.0	76.6
Harrison Hot Springs	VL	M		6	7		–		
		F		5	3		–		
		T	1,106	11	10	43	–		
Kent	DM	M		33	35		–		
		F		29	18		–		
		T	5,316	62	53	53	–		
HR 06 TOTAL		**M**	**120,516**	**1,538**	**961**		**12**	**35.1**	**75.7**
		F	**119,995**	**1,483**	**841**		**9**	**37.1**	**81.1**
		T	**240,511**	**3,021**	**1,802**	**1,251**	**21**	**36.1**	**78.3**
HR 07 SOUTH FRASER VALLEY									
LHA 035 Langley		M	56,074	637	393		7	35.3	77.2
		F	57,164	649	332		7	36.8	81.4
		T	113,238	1,286	725	602	16	36.1	79.3
City of Langley	C	M		147	97		2		
		F		167	100		1		
		T	24,178	314	197	227	4		
Langley	DM	M		490	292		5		
		F		482	230		6		
		T	88,489	972	522	370	12		
LHA 036 Surrey		M	176,116	2,479	1,131		16	34.7	77.3
		F	177,588	2,314	969		16	36.6	82.4
		T	353,704	4,793	2,100	1,550	35	35.6	79.9



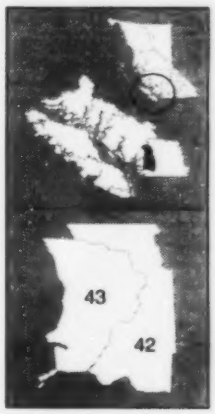


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
Surrey	C	M		2,412	985		16		
		F		2,252	803		15		
		T	336,034	4,664	1,788	1,428	34		
White Rock	C	M		67	146		–		
		F		62	166		1		
		T	17,573	129	312	122	1		
LHA 037 Delta		M	50,591	538	269		2	35.3	78.3
		F	51,067	530	262		3	36.8	82.3
		T	101,658	1,068	531	360	6	36.1	80.4
Delta	DM	M		538	269		2		
		F		530	262		3		
		T	101,098	1,068	531	360	6		
HR 07 TOTAL		**M**	**282,781**	**3,654**	**1,793**		**25**	**34.9**	**76.9**
		F	**285,819**	**3,493**	**1,563**		**26**	**36.7**	**81.8**
		T	**568,600**	**7,147**	**3,356**	**2,512**	**57**	**35.8**	**79.4**
HR 08 SIMON FRASER									
LHA 040 New Westminster		M	26,673	332	252		1	37.5	74.0
		F	27,504	289	268		3	40.7	80.8
		T	54,177	621	520	378	4	39.1	77.5
New Westminster	C	M		332	252		1		
		F		289	268		3		
		T	54,177	621	520	378	4		
LHA 042 Maple Ridge		M	38,556	443	238		2	34.0	76.1
		F	38,355	427	214		3	35.6	80.3
		T	76,911	870	452	384	5	34.8	78.2
Maple Ridge	DM	M		354	197		1		
		F		338	191		3		
		T	61,970	692	388	310	4		
Pitt Meadows	DM	M		89	41		1		
		F		89	23		–		
		T	14,756	178	64	69	1		
LHA 043 Coquitlam		M	93,827	1,172	449		6	33.9	77.0
		F	94,081	1,000	426		5	35.5	81.7
		T	187,908	2,172	875	634	12	34.7	79.4
Anmore	VL	M		2	2		–		
		F		5	–		–		
		T	1,261	7	2	–	–		
Belcarra	VL	M		2	–		–		
		F		1	1		–		
		T	707	3	1	10	–		
Coquitlam	C	M		625	295		4		
		F		543	261		4		
		T	111,534	1,168	556	357	9		
Port Coquitlam	C	M		373	103		2		
		F		309	112		–		
		T	51,130	682	215	182	2		
Port Moody	C	M		169	49		–		
		F		142	50		1		
		T	23,736	311	99	85	1		
HR 08 TOTAL		**M**	**159,056**	**1,947**	**939**		**9**	**34.5**	**75.7**
		F	**159,940**	**1,716**	**908**		**11**	**36.4**	**81.1**
		T	**318,996**	**3,663**	**1,847**	**1,396**	**21**	**35.5**	**78.5**

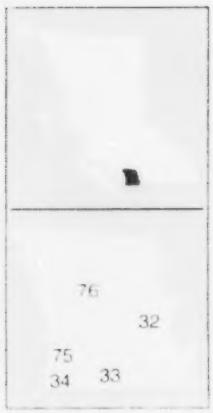


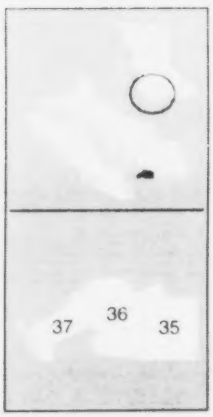
APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region Local Health Area Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
HR 06 FRASER VALLEY									
LHA 032 Hope		M	4,244	36	46		–	38.6	70.0
		F	4,216	38	33		–	39.4	80.2
		T	8,460	74	79	43	–	39.0	74.6
Hope	DM	M		28	41		–		
		F		33	30		–		
		T	6,826	61	71	37	–		
LHA 033 Chilliwack		M	35,386	423	301		3	36.0	75.5
		F	36,157	432	301		1	38.0	81.2
		T	71,543	855	602	377	4	37.0	78.4
Chilliwack	C	M		398	278		3		
		F		404	279		1		
		T	65,263	802	557	354	4		
LHA 034 Abbotsford		M	57,269	812	434		6	34.6	77.7
		F	57,766	742	372		5	36.9	81.9
		T	115,035	1,554	806	536	11	35.7	79.8
City of Abbotsford	C	M		810	432		6		
		F		739	371		5		
		T	114,216	1,549	803	536	11		
LHA 075 Mission		M	19,084	228	138		3	34.0	75.6
		F	18,242	237	114		3	35.1	79.3
		T	37,326	465	252	199	6	34.5	77.4
Mission	DM	M		219	128		2		
		F		220	108		3		
		T	32,660	439	236	195	5		
LHA 076 Agassiz–Harrison		M	4,533	39	42		–	36.4	73.2
		F	3,614	34	21		–	37.7	81.2
		T	8,147	73	63	96	–	37.0	76.6
Harrison Hot Springs	VL	M		6	7		–		
		F		5	3		–		
		T	1,106	11	10	43	–		
Kent	DM	M		33	35		–		
		F		29	18		–		
		T	5,316	62	53	53	–		
HR 06 TOTAL		**M**	**120,516**	**1,538**	**961**		**12**	**35.1**	**75.7**
		F	**119,995**	**1,483**	**841**		**9**	**37.1**	**81.1**
		T	**240,511**	**3,021**	**1,802**	**1,251**	**21**	**36.1**	**78.3**
HR 07 SOUTH FRASER VALLEY									
LHA 035 Langley		M	56,074	637	393		7	35.3	77.2
		F	57,164	649	332		7	36.8	81.4
		T	113,238	1,286	725	602	16	36.1	79.3
City of Langley	C	M		147	97		2		
		F		167	100		1		
		T	24,178	314	197	227	4		
Langley	DM	M		490	292		5		
		F		482	230		6		
		T	88,489	972	522	370	12		
LHA 036 Surrey		M	176,116	2,479	1,131		16	34.7	77.3
		F	177,588	2,314	969		16	36.6	82.4
		T	353,704	4,793	2,100	1,550	35	35.6	79.9



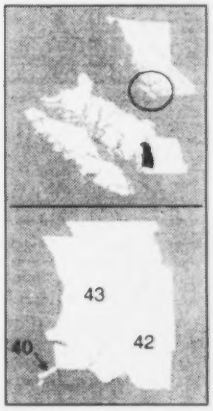


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
Surrey	C	M		2,412	985		16		
		F		2,252	803		15		
		T	336,034	4,664	1,788	1,428	34		
White Rock	C	M		67	146		–		
		F		62	166		1		
		T	17,573	129	312	122	1		
LHA 037 Delta		M	50,591	538	269		2	35.3	78.3
		F	51,067	530	262		3	36.8	82.3
		T	101,658	1,068	531	360	6	36.1	80.4
Delta	DM	M		538	269		2		
		F		530	262		3		
		T	101,098	1,068	531	360	6		
HR 07 TOTAL		**M**	**282,781**	**3,654**	**1,793**		**25**	**34.9**	**76.9**
		F	**285,819**	**3,493**	**1,563**		**26**	**36.7**	**81.8**
		T	**568,600**	**7,147**	**3,356**	**2,512**	**57**	**35.8**	**79.4**
HR 08 SIMON FRASER									
LHA 040 New Westminster		M	26,673	332	252		1	37.5	74.0
		F	27,504	289	268		3	40.7	80.8
		T	54,177	621	520	378	4	39.1	77.5
New Westminster	C	M		332	252		1		
		F		289	268		3		
		T	54,177	621	520	378	4		
LHA 042 Maple Ridge		M	38,556	443	238		2	34.0	76.1
		F	38,355	427	214		3	35.6	80.3
		T	76,911	870	452	384	5	34.8	78.2
Maple Ridge	DM	M		354	197		1		
		F		338	191		3		
		T	61,970	692	388	310	4		
Pitt Meadows	DM	M		89	41		1		
		F		89	23		–		
		T	14,756	178	64	69	1		
LHA 043 Coquitlam		M	93,827	1,172	449		6	33.9	77.0
		F	94,081	1,000	426		5	35.5	81.7
		T	187,908	2,172	875	634	12	34.7	79.4
Anmore	VL	M		2	2		–		
		F		5	–		–		
		T	1,261	7	2	–	–		
Belcarra	VL	M		2	–		–		
		F		1	1		–		
		T	707	3	1	10	–		
Coquitlam	C	M		625	295		4		
		F		543	261		4		
		T	111,534	1,168	556	357	9		
Port Coquitlam	C	M		373	103		2		
		F		309	112		–		
		T	51,130	682	215	182	2		
Port Moody	C	M		169	49		–		
		F		142	50		1		
		T	23,736	311	99	85	1		
HR 08 TOTAL		**M**	**159,056**	**1,947**	**939**		**9**	**34.5**	**75.7**
		F	**159,940**	**1,716**	**908**		**11**	**36.4**	**81.1**
		T	**318,996**	**3,663**	**1,847**	**1,396**	**21**	**35.5**	**78.5**

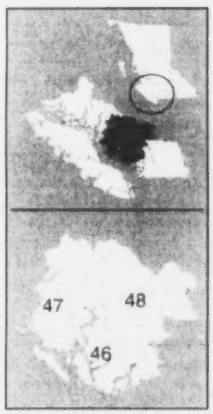


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
HR 09 COAST GARIBALDI									
LHA 046 Sunshine Coast		M	13,462	114	131		3	39.6	75.8
		F	13,786	98	104		1	40.6	81.7
		T	27,248	212	235	148	5	40.1	78.7
Gibsons	T	M		44	40		2		
		F		41	29		–		
		T	3,885	85	69	48	2		
Sechelt/ Sechelt Indian Gov. Dist.	DM/ IGD	M		47	55		1		
		F		28	60		1		
		T	9,253	75	115	56	3		
LHA 047 Powell River		M	10,494	70	79		–	38.3	75.6
		F	10,273	85	84		1	40.0	82.0
		T	20,767	155	163	115	1	39.2	78.6
Powell River	DM	M		66	74		–		
		F		77	80		1		
		T	13,900	143	154	107	1		
LHA 048 Howe Sound		M	16,391	218	67		2	32.2	75.5
		F	14,619	190	46		5	32.0	80.3
		T	31,010	408	113	365	7	32.1	77.8
Pemberton	VL	M		26	4		1		
		F		21	–		–		
		T	1,659	47	4	20	1		
Squamish	DM	M		110	54		1		
		F		105	40		2		
		T	15,359	215	94	74	3		
Whistler	DM	M		57	4		–		
		F		45	2		3		
		T	9,430	102	6	252	3		
HR 09 TOTAL		**M**	**40,347**	**402**	**277**		**5**	**36.3**	**75.8**
		F	**38,678**	**373**	**234**		**7**	**37.2**	**81.5**
		T	**79,025**	**775**	**511**	**628**	**13**	**36.7**	**78.5**



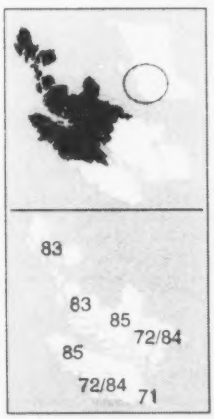
HR 10 CENTRAL VANCOUVER ISLAND									
LHA 065 Cowichan		M	26,600	273	216		2	37.2	76.5
		F	27,033	234	172		1	38.6	82.1
		T	53,633	507	388	239	3	37.9	79.3
Duncan	C	M		40	59		1		
		F		33	66		–		
		T	4,781	73	125	108	1		
North Cowichan	DM	M		161	94		1		
		F		131	64		1		
		T	27,346	292	158	58	2		
LHA 066 Lake Cowichan		M	3,405	32	25		–	36.9	78.8
		F	3,197	30	11		–	36.6	83.9
		T	6,602	62	36	20	–	36.7	81.1
Lake Cowichan	T	M		25	17		–		
		F		25	8		–		
		T	3,064	50	25	13	–		
LHA 067 Ladysmith		M	7,997	88	84		–	39.7	74.5
		F	8,170	75	98		2	41.1	79.6
		T	16,167	163	182	69	2	40.4	76.9

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type[1]	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
Ladysmith	T	M		60	49		–		
		F		49	56		1		
		T	6,878	109	105	42	1		
LHA 068 Nanaimo		M	46,290	436	377		3	37.2	76.1
		F	47,509	413	340		1	39.0	81.8
		T	93,799	849	717	389	5	38.1	78.9
Nanaimo	C	M		397	344		3		
		F		369	324		–		
		T	76,173	766	668	326	4		
LHA 069 Qualicum		M	19,639	140	221		–	43.5	76.5
		F	20,365	124	199		–	45.2	82.0
		T	40,004	264	420	239	–	44.4	79.2
Parksville	C	M		52	84		–		
		F		50	87		–		
		T	10,358	102	171	95	–		
Qualicum Beach	T	M		13	53		–		
		F		13	41		–		
		T	7,390	26	94	55	–		
LHA 070 Alberni		M	16,889	154	124		2	36.4	74.0
		F	16,395	172	107		2	37.2	78.5
		T	33,284	326	231	268	4	36.8	76.2
Port Alberni	C	M		118	114		2		
		F		133	103		1		
		T	19,334	251	217	131	3		
Tofino	DM	M		9	3		–		
		F		16	–		–		
		T	1,479	25	3	99	–		
Ucluelet	DM	M		11	2		–		
		F		13	3		–		
		T	1,764	24	5	28	–		
HR 10 TOTAL		**M**	**120,820**	**1,123**	**1,047**		**7**	**38.2**	**75.5**
		F	**122,669**	**1,048**	**927**		**6**	**39.8**	**81.1**
		T	**243,489**	**2,171**	**1,974**	**1,224**	**14**	**39.0**	**78.3**
HR 11 UPPER ISLAND/CENTRAL COAST									
LHA 071 Courtenay		M	29,622	284	235		4	37.4	76.2
		F	30,124	251	197		1	38.6	81.2
		T	59,746	535	432	299	5	38.0	78.6
Comox	T	M		43	49		2		
		F		36	55		1		
		T	12,153	79	104	75	3		
Courtenay	C	M		150	117		2		
		F		143	86		–		
		T	19,511	293	203	134	2		
Cumberland	VL	M		17	16		–		
		F		15	18		–		
		T	2,726	32	34	11	–		
LHA 072 Campbell River		M	21,507	213	112		1	35.1	75.9
		F	20,588	192	110		–	35.6	80.3
		T	42,095	405	222	198	1	35.4	77.9
Campbell River	DM	M		178	83		1		
		F		163	94		–		
		T	31,295	341	177	148	1		

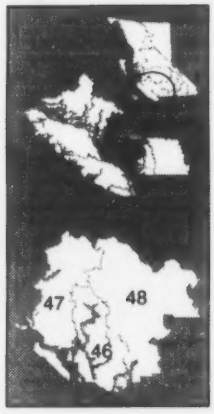


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
HR 09 COAST GARIBALDI									
LHA 046 Sunshine Coast		M	13,462	114	131		3	39.6	75.8
		F	13,786	98	104		1	40.6	81.7
		T	27,248	212	235	148	5	40.1	78.7
Gibsons	T	M		44	40		2		
		F		41	29		–		
		T	3,885	85	69	48	2		
Sechelt/ Sechelt Indian Gov. Dist.	DM/ IGD	M		47	55		1		
		F		28	60		1		
		T	9,253	75	115	56	3		
LHA 047 Powell River		M	10,494	70	79		–	38.3	75.6
		F	10,273	85	84		1	40.0	82.0
		T	20,767	155	163	115	1	39.2	78.6
Powell River	DM	M		66	74		–		
		F		77	80		1		
		T	13,900	143	154	107	1		
LHA 048 Howe Sound		M	16,391	218	67		2	32.2	75.5
		F	14,619	190	46		5	32.0	80.3
		T	31,010	408	113	365	7	32.1	77.8
Pemberton	VL	M		26	4		1		
		F		21	–		–		
		T	1,659	47	4	20	1		
Squamish	DM	M		110	54		1		
		F		105	40		2		
		T	15,359	215	94	74	3		
Whistler	DM	M		57	4		–		
		F		45	2		3		
		T	9,430	102	6	252	3		
HR 09 TOTAL		**M**	**40,347**	**402**	**277**		**5**	**36.3**	**75.8**
		F	**38,678**	**373**	**234**		**7**	**37.2**	**81.5**
		T	**79,025**	**775**	**511**	**628**	**13**	**36.7**	**78.5**



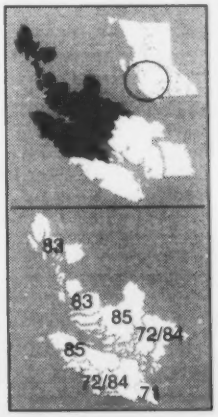
HR 10 CENTRAL VANCOUVER ISLAND									
LHA 065 Cowichan		M	26,600	273	216		2	37.2	76.5
		F	27,033	234	172		1	38.6	82.1
		T	53,633	507	388	239	3	37.9	79.3
Duncan	C	M		40	59		1		
		F		33	66		–		
		T	4,781	73	125	108	1		
North Cowichan	DM	M		161	94		1		
		F		131	64		1		
		T	27,346	292	158	58	2		
LHA 066 Lake Cowichan		M	3,405	32	25		–	36.9	78.8
		F	3,197	30	11		–	36.6	83.9
		T	6,602	62	36	20	–	36.7	81.1
Lake Cowichan	T	M		25	17		–		
		F		25	8		–		
		T	3,064	50	25	13	–		
LHA 067 Ladysmith		M	7,997	88	84		–	39.7	74.5
		F	8,170	75	98		2	41.1	79.6
		T	16,167	163	182	69	2	40.4	76.9

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
Ladysmith	T	M		60	49		–		
		F		49	56		1		
		T	6,878	109	105	42	1		
LHA 068 Nanaimo		M	46,290	436	377		3	37.2	76.1
		F	47,509	413	340		1	39.0	81.8
		T	93,799	849	717	389	5	38.1	78.9
Nanaimo	C	M		397	344		3		
		F		369	324		–		
		T	76,173	766	668	326	4		
LHA 069 Qualicum		M	19,639	140	221		–	43.5	76.5
		F	20,365	124	199		–	45.2	82.0
		T	40,004	264	420	239	–	44.4	79.2
Parksville	C	M		52	84		–		
		F		50	87		–		
		T	10,358	102	171	95	–		
Qualicum Beach	T	M		13	53		–		
		F		13	41		–		
		T	7,390	26	94	55	–		
LHA 070 Alberni		M	16,889	154	124		2	36.4	74.0
		F	16,395	172	107		2	37.2	78.5
		T	33,284	326	231	268	4	36.8	76.2
Port Alberni	C	M		118	114		2		
		F		133	103		1		
		T	19,334	251	217	131	3		
Tofino	DM	M		9	3		–		
		F		16	–		–		
		T	1,479	25	3	99	–		
Ucluelet	DM	M		11	2		–		
		F		13	3		–		
		T	1,764	24	5	28	–		
HR 10 TOTAL		**M**	**120,820**	**1,123**	**1,047**		**7**	**38.2**	**75.5**
		F	**122,669**	**1,048**	**927**		**6**	**39.8**	**81.1**
		T	**243,489**	**2,171**	**1,974**	**1,224**	**14**	**39.0**	**78.3**
HR 11 UPPER ISLAND/CENTRAL COAST									
LHA 071 Courtenay		M	29,622	284	235		4	37.4	76.2
		F	30,124	251	197		1	38.6	81.2
		T	59,746	535	432	299	5	38.0	78.6
Comox	T	M		43	49		2		
		F		36	55		1		
		T	12,153	79	104	75	3		
Courtenay	C	M		150	117		2		
		F		143	86		–		
		T	19,511	293	203	134	2		
Cumberland	VL	M		17	16		–		
		F		15	18		–		
		T	2,726	32	34	11	–		
LHA 072 Campbell River		M	21,507	213	112		1	35.1	75.9
		F	20,588	192	110		–	35.6	80.3
		T	42,095	405	222	198	1	35.4	77.9
Campbell River	DM	M		178	83		1		
		F		163	94		–		
		T	31,295	341	177	148	1		

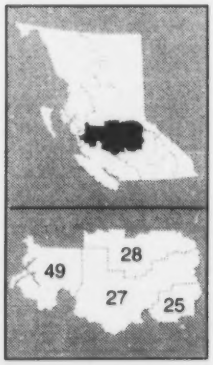


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type[1]	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
Sayward	VL	M		4	4		–		
		F		3	2		–		
		T	432	7	6	5	–		
LHA 083 Central Coast		M	1,083	15	9		–	32.3	70.2
		F	960	16	4		–	31.0	71.7
		T	2,043	31	13	20	–	31.7	71.1
LHA 084 Vancouver Island West		M	1,714	15	3		–	31.9	73.8
		F	1,446	15	4		1	30.4	69.5
		T	3,160	30	7	5	1	31.2	76.5
Gold River	VL	M		10	2		–		
		F		8	3		1		
		T	1,800	18	5	4	1		
Tahsis	VL	M		2	1		–		
		F		3	–		–		
		T	885	5	1	1	–		
Zeballos	VL	M		4	1		–		
		F		2	1		–		
		T	246	6	2	3	–		
LHA 085 Vancouver Island North		M	8,184	90	34		1	32.9	75.4
		F	7,317	91	29		–	31.3	78.2
		T	15,501	181	63	62	1	32.1	76.5
Alert Bay	VL	M		14	5		–		
		F		11	3		–		
		T	553	25	8	6	–		
Port Alice	VL	M		3	2		–		
		F		4	–		–		
		T	1,293	7	2	2	–		
Port Hardy	DM	M		42	13		–		
		F		39	11		–		
		T	5,281	81	24	25	–		
Port McNeill	T	M		17	4		1		
		F		28	4		–		
		T	3,109	45	8	19	1		
HR 11 TOTAL		**M**	**65,028**	**617**	**393**		**6**	**36.4**	**75.7**
		F	**68,357**	**565**	**344**		**2**	**37.2**	**80.2**
		T	**121,399**	**1,182**	**737**	**584**	**8**	**36.2**	**77.8**
HR 12 CARIBOO									
LHA 025 100 Mile House		M	8,365	74	61		1	37.8	75.2
		F	8,072	64	53		2	37.3	79.4
		T	16,437	138	114	88	3	37.6	77.1
100 Mile House	DM	M		45	28		1		
		F		40	31		2		
		T	2,046	85	59	48	3		
LHA 027 Cariboo–Chilcotin		M	15,155	167	81		2	33.4	73.8
		F	14,209	189	60		1	33.7	79.3
		T	29,364	356	141	153	3	33.6	76.4
Williams Lake	C	M		102	48		1		
		F		127	46		–		
		T	11,917	229	94	110	1		
LHA 028 Quesnel		M	13,997	175	77		1	34.1	74.8
		F	13,479	138	59		–	34.1	80.1
		T	27,476	313	136	132	1	34.1	77.3

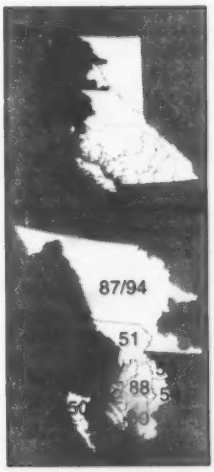


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
Quesnel	C	M		136	59		1		
		F		110	51		–		
		T	10,589	246	110	96	1		
Wells	DM	M		–	–		–		
		F		–	–		–		
		T	258	–	–	–	–		
LHA 049 Bella Coola Valley		M	1,838	31	12		–	31.9	73.2
		F	1,661	28	7		–	32.7	77.6
		T	3,499	59	19	16	–	32.3	74.9
HR 12 TOTAL		**M**	**39,355**	**447**	**231**		**4**	**34.5**	**74.2**
		F	**37,421**	**419**	**179**		**3**	**34.6**	**79.9**
		T	**76,776**	**866**	**410**	**389**	**7**	**34.6**	**76.8**
HR 13 NORTH WEST									
LHA 050 Queen Charlotte		M	3,147	30	18		–	33.0	74.5
		F	2,661	31	12		–	33.1	77.3
		T	5,808	61	30	23	–	33.0	75.4
Masset	VL	M		11	7		–		
		F		10	6		–		
		T	1,211	21	13	13	–		
Port Clements	VL	M		3	2		–		
		F		3			–		
		T	573	6	2	2	–		
LHA 051 Snow Country		M	433	5	2		–	35.2	67.2
		F	388	5	1		–	33.4	67.1
		T	821	10	3	5	–	34.4	69.1
Stewart	DM	M		4	2		–		
		F		5	1		–		
		T	702	9	3	5	–		
LHA 052 Prince Rupert		M	9,636	93	66		–	32.0	73.5
		F	9,110	125	24		1	32.2	80.1
		T	18,746	218	90	71	1	32.1	76.5
Port Edward	DM	M		3	6		–		
		F		6	1		–		
		T	772	9	7	3	–		
Prince Rupert	C	M		82	55		–		
		F		116	20		1		
		T	16,985	198	75	67	1		
LHA 053 Upper Skeena		M	3,226	39	12		–	30.5	77.7
		F	2,847	34	10		–	30.0	79.6
		T	6,073	73	22	23	–	30.3	78.5
Hazelton	VL	M		21	6		–		
		F		11	7		–		
		T	367	32	13	13	–		
New Hazelton	DM	M		9	3		–		
		F		14	3		–		
		T	836	23	6	5	–		
LHA 054 Smithers		M	9,771	148	39		2	31.7	76.4
		F	8,995	133	42		2	31.9	82.2
		T	18,766	281	81	93	5	31.8	79.2
Houston	DM	M		41	10		–		
		F		33	8		1		
		T	4,232	74	18	29	1		

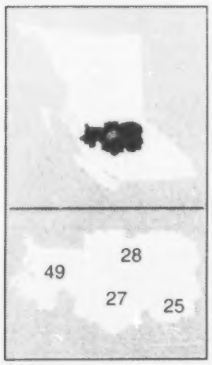


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
Sayward	VL	M		4	4		–		
		F		3	2		–		
		T	432	7	6	5	–		
LHA 083 Central Coast		M	1,083	15	9		–	32.3	70.2
		F	960	16	4		–	31.0	71.7
		T	2,043	31	13	20	–	31.7	71.1
LHA 084 Vancouver Island West		M	1,714	15	3		–	31.9	73.8
		F	1,446	15	4		1	30.4	69.5
		T	3,160	30	7	5	1	31.2	76.5
Gold River	VL	M		10	2		–		
		F		8	3		1		
		T	1,800	18	5	4	1		
Tahsis	VL	M		2	1		–		
		F		3	–		–		
		T	885	5	1	1	–		
Zeballos	VL	M		4	1		–		
		F		2	1		–		
		T	246	6	2	3	–		
LHA 085 Vancouver Island North		M	8,184	90	34		1	32.9	75.4
		F	7,317	91	29		–	31.3	78.2
		T	15,501	181	63	62	1	32.1	76.5
Alert Bay	VL	M		14	5		–		
		F		11	3		–		
		T	553	25	8	6	–		
Port Alice	VL	M		3	2		–		
		F		4	–		–		
		T	1,293	7	2	2	–		
Port Hardy	DM	M		42	13		–		
		F		39	11		–		
		T	5,281	81	24	25	–		
Port McNeill	T	M		17	4		1		
		F		28	4		–		
		T	3,109	45	8	19	1		
HR 11 TOTAL		**M**	**65,028**	**617**	**393**		**6**	**36.4**	**75.7**
		F	**68,357**	**565**	**344**		**2**	**37.2**	**80.2**
		T	**121,399**	**1,182**	**737**	**584**	**8**	**36.2**	**77.8**
HR 12 CARIBOO									
LHA 025 100 Mile House		M	8,365	74	61		1	37.8	75.2
		F	8,072	64	53		2	37.3	79.4
		T	16,437	138	114	88	3	37.6	77.1
100 Mile House	DM	M		45	28		1		
		F		40	31		2		
		T	2,046	85	59	48	3		
LHA 027 Cariboo–Chilcotin		M	15,155	167	81		2	33.4	73.8
		F	14,209	189	60		1	33.7	79.3
		T	29,364	356	141	153	3	33.6	76.4
Williams Lake	C	M		102	48		1		
		F		127	46		–		
		T	11,917	229	94	110	1		
LHA 028 Quesnel		M	13,997	175	77		1	34.1	74.8
		F	13,479	138	59		–	34.1	80.1
		T	27,476	313	136	132	1	34.1	77.3

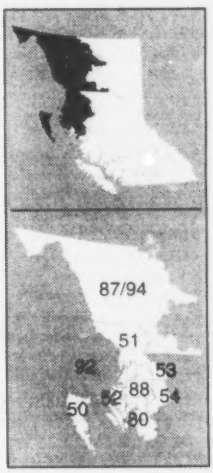


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
Quesnel	C	M		136	59		1		
		F		110	51		–		
		T	10,589	246	110	96	1		
Wells	DM	M		–	–		–		
		F		–	–		–		
		T	258	–	–	–	–		
LHA 049 Bella Coola Valley		M	1,838	31	12		–	31.9	73.2
		F	1,661	28	7		–	32.7	77.6
		T	3,499	59	19	16	–	32.3	74.9
HR 12 TOTAL		**M**	**39,355**	**447**	**231**		**4**	**34.5**	**74.2**
		F	**37,421**	**419**	**179**		**3**	**34.6**	**79.9**
		T	**76,776**	**866**	**410**	**389**	**7**	**34.6**	**76.8**
HR 13 NORTH WEST									
LHA 050 Queen Charlotte		M	3,147	30	18		–	33.0	74.5
		F	2,661	31	12		–	33.1	77.3
		T	5,808	61	30	23	–	33.0	75.4
Masset	VL	M		11	7		–		
		F		10	6		–		
		T	1,211	21	13	13	–		
Port Clements	VL	M		3	2		–		
		F		3			–		
		T	573	6	2	2	–		
LHA 051 Snow Country		M	433	5	2		–	35.2	67.2
		F	388	5	1		–	33.4	67.1
		T	821	10	3	5	–	34.4	69.1
Stewart	DM	M		4	2		–		
		F		5	1		–		
		T	702	9	3	5	–		
LHA 052 Prince Rupert		M	9,636	93	66		–	32.0	73.5
		F	9,110	125	24		1	32.2	80.1
		T	18,746	218	90	71	1	32.1	76.5
Port Edward	DM	M		3	6		–		
		F		6	1		–		
		T	772	9	7	3	–		
Prince Rupert	C	M		82	55		–		
		F		116	20		1		
		T	16,985	198	75	67	1		
LHA 053 Upper Skeena		M	3,226	39	12		–	30.5	77.7
		F	2,847	34	10		–	30.0	79.6
		T	6,073	73	22	23	–	30.3	78.5
Hazelton	VL	M		21	6		–		
		F		11	7		–		
		T	367	32	13	13	–		
New Hazelton	DM	M		9	3		–		
		F		14	3		–		
		T	836	23	6	5	–		
LHA 054 Smithers		M	9,771	148	39		2	31.7	76.4
		F	8,995	133	42		2	31.9	82.2
		T	18,766	281	81	93	5	31.8	79.2
Houston	DM	M		41	10		–		
		F		33	8		1		
		T	4,232	74	18	29	1		

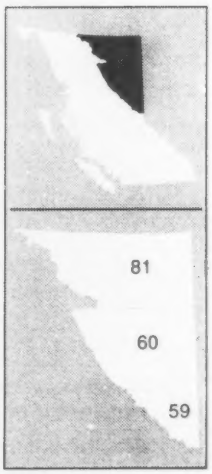


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
Smithers	T	M		80	20		2		
		F		80	30		1		
		T	6,069	160	50	53	4		
Telkwa	VL	M		24	9		–		
		F		17	4		–		
		T	1,417	41	13	9	–		
LHA 080 Kitimat		M	6,765	87	25		–	33.1	75.5
		F	6,277	56	27		1	33.1	82.9
		T	13,042	143	52	37	1	33.1	78.5
Kitimat	DM	M		77	22		–		
		F		49	21		1		
		T	11,672	126	43	31	1		
LHA 087 Stikine		M	704	2	4		–	35.0	85.9
		F	646	9	1		–	33.8	82.3
		T	1,350	11	5	8	–	34.4	90.8
LHA 088 Terrace		M	12,378	136	73		1	32.1	74.7
		F	11,592	164	47		1	31.6	79.1
		T	23,970	300	120	126	2	31.8	76.7
Terrace	C	M		97	61		1		
		F		120	33		1		
		T	13,836	217	94	102	2		
LHA 092 Nishga		M	1,253	9	5		–	30.0	71.0
		F	1,070	15	6		–	29.8	76.6
		T	2,323	24	11	17	–	29.9	73.6
LHA 094 Telegraph Creek		M	348	4	7		–	29.6	73.4
		F	297	7	4		–	29.3	83.6
		T	645	11	11	2	–	29.5	79.0
HR 13 TOTAL		**M**	**47,661**	**553**	**251**		**3**	**32.1**	**74.7**
		F	**43,883**	**579**	**174**		**5**	**32.0**	**80.3**
		T	**91,544**	**1,132**	**425**	**405**	**9**	**32.0**	**77.3**
HR 14 PEACE LIARD									
LHA 059 Peace River South		M	14,968	169	90		–	32.8	76.2
		F	14,176	149	54		1	33.0	80.9
		T	29,144	318	144	160	1	32.9	78.4
Chetwynd	DM	M		42	3		–		
		F		35	4		–		
		T	3,059	77	7	36	–		
Dawson Creek	C	M		88	55		–		
		F		89	25		1		
		T	11,812	177	80	92	1		
Pouce Coupe	VL	M		11	19		–		
		F		5	21		–		
		T	928	16	40	7	–		
Tumbler Ridge	DM	M		12	2		–		
		F		6	2		–		
		T	2,858	18	4	13	–		
LHA 060 Peace River North		M	15,841	221	69		2	31.0	75.9
		F	14,884	220	38		2	31.0	82.9
		T	30,725	441	107	189	4	31.0	79.0

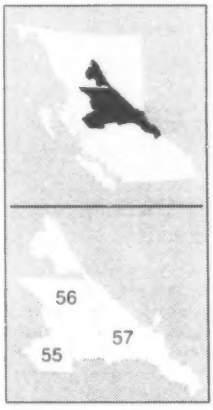


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type[1]	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
Fort St. John	C	M		157	48		1		
		F		163	33		1		
		T	16,448	320	81	130	2		
Hudson's		M		9	5		1		
Hope	DM	F		6	1		–		
		T	1,152	15	6	7	1		
Taylor	DM	M		11	3		–		
		F		9			–		
		T	1,211	20	3	10	–		
LHA 081 Fort Nelson		M	3,470	61	12		–	28.7	74.9
		F	3,120	33	4		–	28.4	73.3
		T	6,590	94	16	29	2	28.6	76.7
Fort Nelson	T	M		58	11		–		
		F		33	4		–		
		T	4,777	91	15	27	2		
HR 14 TOTAL		**M**	**34,279**	**451**	**171**		**2**	**31.6**	**75.3**
		F	**32,180**	**402**	**96**		**3**	**31.6**	**80.4**
		T	**66,459**	**853**	**267**	**378**	**7**	**31.6**	**77.6**
HR 15 NORTHERN INTERIOR									
LHA 055 Burns Lake		M	4,105	49	27		–	33.8	73.0
		F	3,829	39	23		–	33.2	80.3
		T	7,934	88	50	35	1	33.5	76.1
Burns Lake	VL	M		46	21		–		
		F		33	20		–		
		T	1,888	79	41	29	1		
Granisle	VL	M		1	1		–		
		F		1	3		–		
		T	456	2	4		–		
LHA 056 Nechako		M	9,648	131	52		1	32.0	74.1
		F	8,821	103	32		1	31.9	79.7
		T	18,469	234	84	80	2	32.0	76.7
Fort St. James	DM	M		48	18		–		
		F		29	9		–		
		T	2,111	77	27	21	–		
Fraser Lake	VL	M		14	10		–		
		F		12	4		–		
		T	1,283	26	14	10	–		
Vanderhoof	DM	M		62	21		1		
		F		52	16		1		
		T	4,777	114	37	40	2		
LHA 057 Prince George		M	54,916	609	270		4	32.6	74.4
		F	52,111	567	202		3	32.6	79.7
		T	107,027	1,176	472	450	8	32.6	76.9
Mackenzie	DM	M		44	7		–		
		F		40	1		–		
		T	6,250	84	8	14	–		
McBride	VL	M		16	4		–		
		F		9	8		–		
		T	757	25	12	2	–		
Prince George	C	M		528	241		4		
		F		493	186		2		
		T	80,845	1,021	427	416	7		

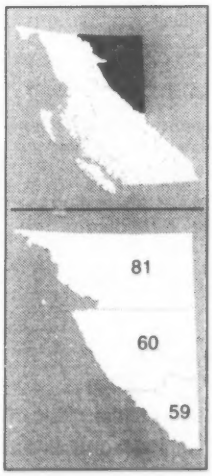


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
Smithers	T	M		80	20		2		
		F		80	30		1		
		T	6,069	160	50	53	4		
Telkwa	VL	M		24	9		–		
		F		17	4		–		
		T	1,417	41	13	9	–		
LHA 080 Kitimat		M	6,765	87	25		–	33.1	75.5
		F	6,277	56	27		1	33.1	82.9
		T	13,042	143	52	37	1	33.1	78.5
Kitimat	DM	M		77	22		–		
		F		49	21		1		
		T	11,672	126	43	31	1		
LHA 087 Stikine		M	704	2	4		–	35.0	85.9
		F	646	9	1		–	33.8	82.3
		T	1,350	11	5	8	–	34.4	90.8
LHA 088 Terrace		M	12,378	136	73		1	32.1	74.7
		F	11,592	164	47		1	31.6	79.1
		T	23,970	300	120	126	2	31.8	76.7
Terrace	C	M		97	61		1		
		F		120	33		1		
		T	13,836	217	94	102	2		
LHA 092 Nishga		M	1,253	9	5		–	30.0	71.0
		F	1,070	15	6		–	29.8	76.6
		T	2,323	24	11	17	–	29.9	73.6
LHA 094 Telegraph Creek		M	348	4	7		–	29.6	73.4
		F	297	7	4		–	29.3	83.6
		T	645	11	11	2	–	29.5	79.0
HR 13 TOTAL		**M**	**47,661**	**553**	**251**		**3**	**32.1**	**74.7**
		F	**43,883**	**579**	**174**		**5**	**32.0**	**80.3**
		T	**91,544**	**1,132**	**425**	**405**	**9**	**32.0**	**77.3**
HR 14 PEACE LIARD									
LHA 059 Peace River South		M	14,968	169	90		–	32.8	76.2
		F	14,176	149	54		1	33.0	80.9
		T	29,144	318	144	160	1	32.9	78.4
Chetwynd	DM	M		42	3		–		
		F		35	4		–		
		T	3,059	77	7	36	–		
Dawson Creek	C	M		88	55		–		
		F		89	25		1		
		T	11,812	177	80	92	1		
Pouce Coupe	VL	M		11	19		–		
		F		5	21		–		
		T	928	16	40	7	–		
Tumbler Ridge	DM	M		12	2		–		
		F		6	2		–		
		T	2,858	18	4	13	–		
LHA 060 Peace River North		M	15,841	221	69		2	31.0	75.9
		F	14,884	220	38		2	31.0	82.9
		T	30,725	441	107	189	4	31.0	79.0

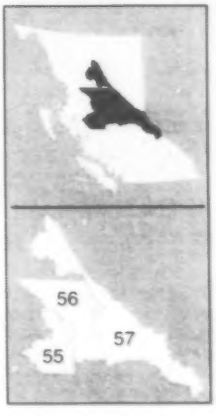


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
Fort St. John	C	M		157	48		1		
		F		163	33		1		
		T	16,448	320	81	130	2		
Hudson's		M		9	5		1		
Hope	DM	F		6	1		–		
		T	1,152	15	6	7	1		
Taylor	DM	M		11	3		–		
		F		9			–		
		T	1,211	20	3	10	–		
LHA 081 Fort Nelson		**M**	**3,470**	**61**	**12**		**–**	**28.7**	**74.9**
		F	**3,120**	**33**	**4**		**–**	**28.4**	**73.3**
		T	**6,590**	**94**	**16**	**29**	**2**	**28.6**	**76.7**
Fort Nelson	T	M		58	11		–		
		F		33	4		–		
		T	4,777	91	15	27	2		
HR 14 TOTAL		**M**	**34,279**	**451**	**171**		**2**	**31.6**	**75.3**
		F	**32,180**	**402**	**96**		**3**	**31.6**	**80.4**
		T	**66,459**	**853**	**267**	**378**	**7**	**31.6**	**77.6**
HR 15 NORTHERN INTERIOR									
LHA 055 Burns Lake		M	4,105	49	27		–	33.8	73.0
		F	3,829	39	23		–	33.2	80.3
		T	7,934	88	50	35	1	33.5	76.1
Burns Lake	VL	M		46	21		–		
		F		33	20		–		
		T	1,888	79	41	29	1		
Granisle	VL	M		1	1		–		
		F		1	3		–		
		T	456	2	4	1	–		
LHA 056 Nechako		M	9,648	131	52		1	32.0	74.1
		F	8,821	103	32		1	31.9	79.7
		T	18,469	234	84	80	2	32.0	76.7
Fort St. James	DM	M		48	18		–		
		F		29	9		–		
		T	2,111	77	27	21	–		
Fraser Lake	VL	M		14	10		–		
		F		12	4		–		
		T	1,283	26	14	10	–		
Vanderhoof	DM	M		62	21		1		
		F		52	16		1		
		T	4,777	114	37	40	2		
LHA 057 Prince George		M	54,916	609	270		4	32.6	74.4
		F	52,111	567	202		3	32.6	79.7
		T	107,027	1,176	472	450	8	32.6	76.9
Mackenzie	DM	M		44	7		–		
		F		40	1		–		
		T	6,250	84	8	14	–		
McBride	VL	M		16	4		–		
		F		9	8		–		
		T	757	25	12	2	–		
Prince George	C	M		528	241		4		
		F		493	186		2		
		T	80,845	1,021	427	416	7		



M121

IMPORTANT NOTE CONCERNING THE FOLLOWING PAGES

THE PAGES WHICH FOLLOW HAVE BEEN FILMED TWICE IN ORDER TO OBTAIN THE BEST REPRODUCTIVE QUALITY

USERS SHOULD CONSULT ALL THE PAGES REPRODUCED ON THE FICHE IN ORDER TO OBTAIN A COMPLETE READING OF THE TEXT.

REMARQUE IMPORTANTE CONCERNANT LES PAGES QUI SUIVENT

LES PAGES SUIVANTES ONT ÉTÉ REPRODUITES EN DOUBLE AFIN D'AMÉLIORER LA QUALITÉ DE REPRODUCTION

LES UTILISATEURS DOIVENT CONSULTER TOUTES LES PAGES REPRODUITES SUR LA FICHE AFIN D'OBTENIR LA LECTURE DU TEXTE INTÉGRAL

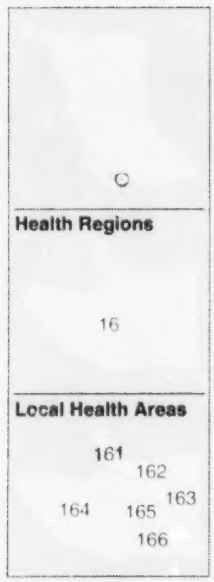
micromedia
a division of IHS Canada

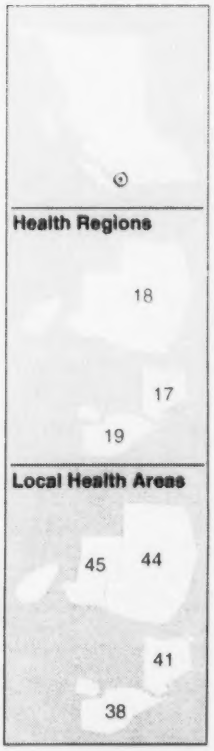
20 Victoria Street
Toronto, Ontario M5C 2N8
Tel.: (416) 362-5211
Toll Free: 1-800-387-2689
Fax: (416) 362-6161
Email: info@micromedia.on.ca

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999





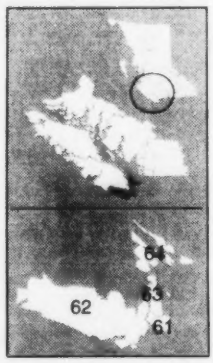
Health Region / Local Health Area / Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
Valemount	VL	M		1	6		–		
		F		5	4		–		
		T	1,362	6	10	7	–		
HR 15 TOTAL		**M**	**68,669**	**789**	**349**		**5**	**32.6**	**74.2**
		F	**64,761**	**709**	**257**		**4**	**32.6**	**79.8**
		T	**133,430**	**1,498**	**606**	**565**	**11**	**32.6**	**76.8**
HR 16 VANCOUVER									
LHA 161 Vancouver City Centre		M	47,766	346	348		6	38.1	71.5
		F	47,061	311	324		5	39.6	82.1
		T	94,827	657	672	843	11	38.8	76.4
162 Vancouver Downtown E. Side		M	28,950	264	404		1	39.0	65.2
		F	23,876	197	188		2	39.5	78.4
		T	52,826	461	592	564	3	39.2	70.2
163 Vancouver North East		M	47,051	594	318		5	35.9	78.0
		F	47,608	576	266		1	37.8	83.6
		T	94,659	1,170	584	568	6	36.8	80.8
164 Vancouver West Side		M	58,266	546	376		4	36.7	79.4
		F	64,412	501	453		4	39.3	84.2
		T	122,678	1,047	829	1,172	8	38.0	82.0
165 Vancouver Midtown		M	42,433	534	272		1	35.7	75.4
		F	43,292	550	201		4	37.7	82.1
		T	85,725	1,084	473	314	5	36.7	78.7
166 Vancouver South		M	57,466	652	415		2	36.7	78.0
		F	61,409	661	402		7	39.5	82.8
		T	118,875	1,313	817	419	9	38.1	80.6
HR 16 TOTAL		**M**	**281,932**	**2,937**	**2,136**		**19**	**36.9**	**74.7**
		F	**287,658**	**2,796**	**1,837**		**23**	**38.9**	**82.2**
		T	**569,590**	**5,733**	**3,973**	**3,881**	**42**	**37.9**	**78.4**
HR 17 BURNABY									
LHA 041 Burnaby		M	93,917	1,075	684		6	36.9	76.8
		F	96,355	928	606		4	39.2	82.7
		T	190,272	2,003	1,290	928	10	38.1	79.8
Burnaby	C	M		1,075	684		6		
		F		928	606		4		
		T	190,272	2,003	1,290	928	10		
HR 17 TOTAL		**M**	**93,917**	**1,075**	**684**		**6**	**36.9**	**76.4**
		F	**96,355**	**928**	**606**		**4**	**39.2**	**82.1**
		T	**190,272**	**2,003**	**1,290**	**928**	**10**	**38.1**	**79.3**
HR 18 NORTH SHORE									
LHA 044 North Vancouver		M	63,277	712	373		6	36.6	78.3
		F	66,859	647	428		2	38.6	82.1
		T	130,136	1,359	801	470	9	37.6	80.3
North Vancouver	C	M		284	155		4		
		F		274	175		–		
		T	44,640	558	330	181	4		
North Vancouver	DM	M		428	220		2		
		F		373	254		2		
		T	85,509	801	474	289	5		

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

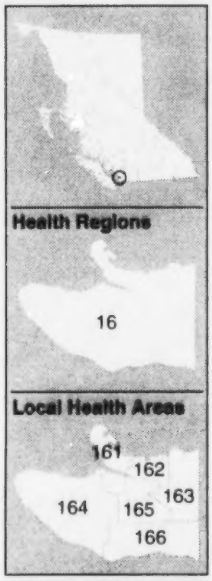
Health Region/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
LHA 045 West Vancouver–Bowen Is.		M	23,317	151	207		1	42.0	79.9
		F	26,055	157	209		1	44.7	84.1
		T	49,372	308	416	350	2	43.4	82.1
Lions Bay	VL	M		5	1		–		
		F		9			–		
		T	1,413	14	1	19	–		
West Vancouver	DM	M		134	197		–		
		F		133	203		1		
		T	42,541	267	400	301	1		
HR 18 TOTAL		**M**	**86,594**	**863**	**580**		**7**	**38.0**	**78.3**
		F	**92,914**	**804**	**637**		**3**	**40.3**	**82.4**
		T	**179,508**	**1,667**	**1,217**	**820**	**11**	**39.2**	**80.5**
HR 19 RICHMOND									
LHA 038 Richmond		M	80,115	798	425		7	35.9	79.3
		F	83,894	721	386		6	38.3	84.3
		T	164,009	1,519	811	953	14	37.1	81.9
Richmond	C	M		798	425		7		
		F		721	386		6		
		T	164,009	1,519	811	953	14		
HR 19 TOTAL		**M**	**80,115**	**798**	**425**		**7**	**35.9**	**78.7**
		F	**83,894**	**721**	**386**		**6**	**38.3**	**83.6**
		T	**164,009**	**1,519**	**811**	**953**	**14**	**37.1**	**81.3**
HR 20 CAPITAL									
LHA 061 Greater Victoria		M	97,016	896	1,046		5	38.9	76.7
		F	108,386	870	1,270		6	42.8	81.7
		T	205,402	1,766	2,316	1,357	11	41.0	79.4
Esquimalt	DM	M		112	80		1		
		F		85	74		1		
		T	16,423	197	154	140	2		
Oak Bay	DM	M		41	99		–		
		F		63	125		–		
		T	17,900	104	224	134	–		
Saanich	DM	M		441	407		–		
		F		412	379		4		
		T	106,695	853	786	381	4		
Victoria	C	M		304	517		4		
		F		295	710		1		
		T	75,283	599	1,227	781	5		
View Royal	T	M		56	49		–		
		F		56	47		–		
		T	7,325	112	96	35	–		
LHA 062 Sooke		**M**	**27,272**	**286**	**141**		**2**	**34.7**	**77.2**
		F	**26,799**	**273**	**140**		**–**	**35.8**	**81.1**
		T	**54,071**	**559**	**281**	**364**	**2**	**35.3**	**79.1**
Colwood	C	M		72	56		1		
		F		81	68		–		
		T	14,676	153	124	122	1		
Highlands	DM	M		7	3		–		
		F		4	1		–		
		T	1,602	11	4	4	–		



APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999



Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
Valemount	VL	M		1	6		–		
		F		5	4		–		
		T	1,362	6	10	7	–		
HR 15 TOTAL		**M**	**68,669**	**789**	**349**		**5**	**32.6**	**74.2**
		F	**64,761**	**709**	**257**		**4**	**32.6**	**79.8**
		T	**133,430**	**1,498**	**606**	**565**	**11**	**32.6**	**76.8**
HR 16 VANCOUVER									
LHA 161 Vancouver City Centre		M	47,766	346	348		6	38.1	71.5
		F	47,061	311	324		5	39.6	82.1
		T	94,827	657	672	843	11	38.8	76.4
162 Vancouver Downtown E. Side		M	28,950	264	404		1	39.0	65.2
		F	23,876	197	188		2	39.5	78.4
		T	52,826	461	592	564	3	39.2	70.2
163 Vancouver North East		M	47,051	594	318		5	35.9	78.0
		F	47,608	576	266		1	37.8	83.6
		T	94,659	1,170	584	568	6	36.8	80.8
164 Vancouver West Side		M	58,266	546	376		4	36.7	79.4
		F	64,412	501	453		4	39.3	84.2
		T	122,678	1,047	829	1,172	8	38.0	82.0
165 Vancouver Midtown		M	42,433	534	272		1	35.7	75.4
		F	43,292	550	201		4	37.7	82.1
		T	85,725	1,084	473	314	5	36.7	78.7
166 Vancouver South		M	57,466	652	415		2	36.7	78.0
		F	61,409	661	402		7	39.5	82.8
		T	118,875	1,313	817	419	9	38.1	80.6
HR 16 TOTAL		**M**	**281,932**	**2,937**	**2,136**		**19**	**36.9**	**74.7**
		F	**287,658**	**2,796**	**1,837**		**23**	**38.9**	**82.2**
		T	**569,590**	**5,733**	**3,973**	**3,881**	**42**	**37.9**	**78.4**
HR 17 BURNABY									
LHA 041 Burnaby		M	93,917	1,075	684		6	36.9	76.8
		F	96,355	928	606		4	39.2	82.7
		T	190,272	2,003	1,290	928	10	38.1	79.8
Burnaby	C	M		1,075	684		6		
		F		928	606		4		
		T	190,272	2,003	1,290	928	10		
HR 17 TOTAL		**M**	**93,917**	**1,075**	**684**		**6**	**36.9**	**76.4**
		F	**96,355**	**928**	**606**		**4**	**39.2**	**82.1**
		T	**190,272**	**2,003**	**1,290**	**928**	**10**	**38.1**	**79.3**
HR 18 NORTH SHORE									
LHA 044 North Vancouver		M	63,277	712	373		6	36.6	78.3
		F	66,859	647	428		2	38.6	82.1
		T	130,136	1,359	801	470	9	37.6	80.3
North Vancouver	C	M		284	155		4		
		F		274	175		–		
		T	44,640	558	330	181	4		
North Vancouver	DM	M		428	220		2		
		F		373	254		2		
		T	85,509	801	474	289	5		

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
LHA 045 West Vancouver–Bowen Is.		M	23,317	151	207		1	42.0	79.9
		F	26,055	157	209		1	44.7	84.1
		T	49,372	308	416	350	2	43.4	82.1
Lions Bay	VL	M		5	1		–		
		F		9			–		
		T	1,413	14	1	19	–		
West Vancouver	DM	M		134	197		–		
		F		133	203		1		
		T	42,541	267	400	301	1		
HR 18 TOTAL		**M**	**86,594**	**863**	**580**		**7**	**38.0**	**78.3**
		F	**92,914**	**804**	**637**		**3**	**40.3**	**82.4**
		T	**179,508**	**1,667**	**1,217**	**820**	**11**	**39.2**	**80.5**
HR 19 RICHMOND									
LHA 038 Richmond		M	80,115	798	425		7	35.9	79.3
		F	83,894	721	386		6	38.3	84.3
		T	164,009	1,519	811	953	14	37.1	81.9
Richmond	C	M		798	425		7		
		F		721	386		6		
		T	164,009	1,519	811	953	14		
HR 19 TOTAL		**M**	**80,115**	**798**	**425**		**7**	**35.9**	**78.7**
		F	**83,894**	**721**	**386**		**6**	**38.3**	**83.6**
		T	**164,009**	**1,519**	**811**	**953**	**14**	**37.1**	**81.3**
HR 20 CAPITAL									
LHA 061 Greater Victoria		M	97,016	896	1,046		5	38.9	76.7
		F	108,386	870	1,270		6	42.8	81.7
		T	205,402	1,766	2,316	1,357	11	41.0	79.4
Esquimalt	DM	M		112	80		1		
		F		85	74		1		
		T	16,423	197	154	140	2		
Oak Bay	DM	M		41	99		–		
		F		63	125		–		
		T	17,900	104	224	134	–		
Saanich	DM	M		441	407		–		
		F		412	379		4		
		T	106,695	853	786	381	4		
Victoria	C	M		304	517		4		
		F		295	710		1		
		T	75,283	599	1,227	781	5		
View Royal	T	M		56	49		–		
		F		56	47		–		
		T	7,325	112	96	35	–		
LHA 062 Sooke		**M**	**27,272**	**286**	**141**		**2**	**34.7**	**77.2**
		F	**26,799**	**273**	**140**		**–**	**35.8**	**81.1**
		T	**54,071**	**559**	**281**	**364**	**2**	**35.3**	**79.1**
Colwood	C	M		72	56		1		
		F		81	68		–		
		T	14,676	153	124	122	1		
Highlands	DM	M		7	3		–		
		F		4	1		–		
		T	1,602	11	4	4	–		

APPENDIX 1 – *concluded*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
Langford	DM	M		109	36		1		
		F		108	40		–		
		T	19,567	217	76	62	1		
Metchosin	DM	M		12	7		–		
		F		10	4		–		
		T	5,030	22	11	17	–		
LHA 063 Saanich		**M**	**29,390**	**187**	**313**		**1**	**42.4**	**78.9**
		F	**30,921**	**202**	**278**		**–**	**44.3**	**83.5**
		T	**60,311**	**389**	**591**	**335**	**2**	**43.4**	**81.2**
Central Saanich	DM	M		70	79		1		
		F		74	78		–		
		T	15,509	144	157	87	1		
North Saanich	DM	M		31	29		–		
		F		30	31		–		
		T	10,918	61	60	60	1		
Sidney	T	M		32	98		–		
		F		60	95		–		
		T	11,202	92	193	81	–		
LHA 064 Gulf Islands		**M**	**7,055**	**55**	**64**		**1**	**43.7**	**79.0**
		F	**7,529**	**39**	**72**		**–**	**45.1**	**83.9**
		T	**14,584**	**94**	**136**	**139**	**1**	**44.4**	**81.5**
HR 20 TOTAL		**M**	**160,733**	**1,424**	**1,564**		**9**	**39.1**	**77.1**
		F	**173,635**	**1,384**	**1,760**		**6**	**42.1**	**81.8**
		T	**334,368**	**2,808**	**3,324**	**2,195**	**16**	**40.6**	**79.6**
BRITISH COLUMBIA									
TOTAL		**M**	**2,001,506**	**21,540**	**14,695**		**146**	**36.3**	**76.5**
		F	**2,027,747**	**20,199**	**13,099**		**131**	**38.1**	**82.0**
		T	**4,029,253**	**41,739**	**27,794**	**21,616**	**294**	**37.2**	**79.2**

Note: Live births, stillbirths and deaths are assigned to communities based on the postal code of usual residence. Marriages are assigned according to the place where the marriage ceremony was performed, and include non-BC residents.
Totals for gender include cases with unknown gender.
Population estimates and information on life expectancy (1995–1999) were obtained from BCSTATS, Ministry of Finance and Corporate Relations.
† C=City, T=Town, VL=Village, DM=District Municipality, IGD=Indian Government District.
The boundaries of some communities include areas in more than one LHA.
Vancouver Total may include unspecified Vancouver addresses.

APPENDIX 1 – *concluded*

STATISTICAL SUMMARIES BY HEALTH REGION, LOCAL HEALTH AREA AND COMMUNITY

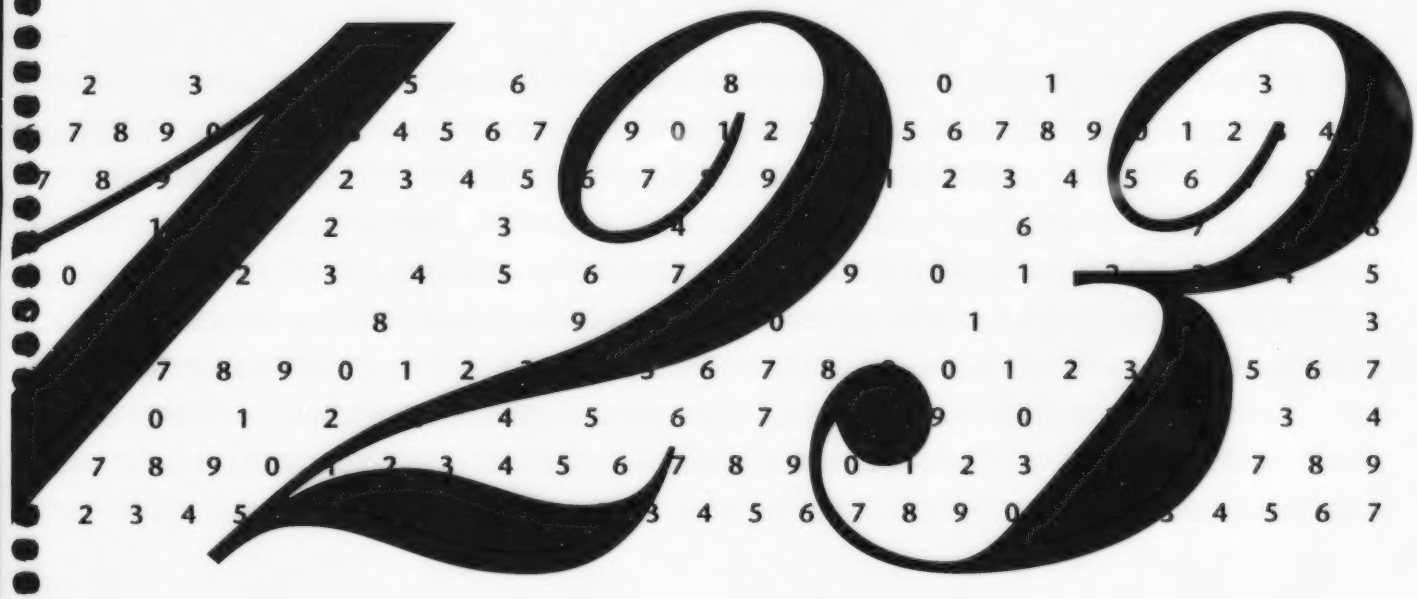
BRITISH COLUMBIA, 1999

Health Region/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (1995–1999)
Langford	DM	M		109	36		1		
		F		108	40		–		
		T	19,567	217	76	62	1		
Metchosin	DM	M		12	7		–		
		F		10	4		–		
		T	5,030	22	11	17	–		
LHA 063 Saanich		M	29,390	187	313		1	42.4	78.9
		F	30,921	202	278		–	44.3	83.5
		T	60,311	389	591	335	2	43.4	81.2
Central Saanich	DM	M		70	79		1		
		F		74	78		–		
		T	15,509	144	157	87	1		
North Saanich	DM	M		31	29		–		
		F		30	31		–		
		T	10,918	61	60	60	1		
Sidney	T	M		32	98		–		
		F		60	95		–		
		T	11,202	92	193	81	–		
LHA 064 Gulf Islands		M	7,055	55	64		1	43.7	79.0
		F	7,529	39	72		–	45.1	83.9
		T	14,584	94	136	139	1	44.4	81.5
HR 20 TOTAL		**M**	**160,733**	**1,424**	**1,564**		**9**	**39.1**	**77.1**
		F	**173,635**	**1,384**	**1,760**		**6**	**42.1**	**81.8**
		T	**334,368**	**2,808**	**3,324**	**2,195**	**16**	**40.6**	**79.6**
BRITISH COLUMBIA									
TOTAL		**M**	**2,001,506**	**21,540**	**14,695**		**146**	**36.3**	**76.5**
		F	**2,027,747**	**20,199**	**13,099**		**131**	**38.1**	**82.0**
		T	**4,029,253**	**41,739**	**27,794**	**21,616**	**294**	**37.2**	**79.2**

Note: Live births, stillbirths and deaths are assigned to communities based on the postal code of usual residence.
Marriages are assigned according to the place where the marriage ceremony was performed, and include non-BC residents.
Totals for gender include cases with unknown gender.
Population estimates and information on life expectancy (1995–1999) were obtained from BCSTATS, Ministry of Finance and Corporate Relations.
† C=City, T=Town, VL=Village, DM=District Municipality, IGD=Indian Government District.
The boundaries of some communities include areas in more than one LHA.
Vancouver Total may include unspecified Vancouver addresses.

Appendix 2

Detailed Cause of Death by Gender and Age



Preamble to Appendix 2

Appendix 2 describes detailed causes of death by cause, gender, and age for deaths which occurred to residents of British Columbia in the province during 1999. Causes of death are coded according to the International Classification of Diseases, Ninth Revision (ICD9), which defines the underlying cause of death as "(a) the disease or injury which initiated the train of events leading directly to death, or (b) the circumstances of the accident or violence which produced the fatal injury." Although many causes of death in ICD9 are specified by four digits, these have been summed to the three digit level and are only presented when there were at least five deaths from the specified cause. Statistics using four digit ICD9 codes, and those for rare causes of death, are available upon request.

Deaths which are not from natural causes (suicide, homicide, and accidents) may be subject to investigation by the coroner. At the time that information is produced for the annual report, deaths which are still under investigation are included in ICD9 799.9 *Other unknown or unspecified cause* in the annual report. The proportion of deaths in this category varies depending upon when the annual report is produced.

ICD9 Codes	Cause of Death Category
001–139	Infectious and Parasitic Diseases
	including: AIDS/HIV Infection (042–044)
	tuberculosis (010–018, 137)
140–239	Neoplasms
	including: malignant neoplasms (cancers) of oral cavity (140–149)
	esophagus (150)
	colorectal (153–154)
	pancreas (157)
	larynx (161)
	trachea, lung, and bronchus (162)
	female breast (174)
	cervix (180)
	bladder (188)
	kidney (189)
240–279	Endocrine, Nutritional, and Metabolic Diseases and Immunity Disorders
	including: diabetes (250)
280–289	Diseases of Blood and Blood-Forming Organs
290–319	Mental Disorders
320–389	Diseases of the Nervous System and Sense Organs
390–459	Diseases of the Circulatory System
	including: chronic rheumatic heart disease (393–398)
	hypertensive disease (401–405)
	ischaemic heart disease (410–414)
	cerebrovascular disease (430–438)
	atherosclerosis (440)
	aortic aneurysm (441)

460–519 Diseases of the Respiratory System
including: pneumonia (480–486)
influenza (487)
bronchitis (490–491)
emphysema (492)
asthma (493)
chronic obstructive pulmonary disease (496)

520–579 Diseases of the Digestive System
including: chronic liver disease/cirrhosis (571)

580–629 Diseases of the Genitourinary System

630–676 Complications of Pregnancy, Childbirth, and the Puerperium

680–709 Diseases of the Skin and Subcutaneous Tissue

710–739 Diseases of the Musculoskeletal System and Connective Tissue

740–759 Congenital Anomalies

760–779 Certain Conditions Originating in the Perinatal Period

780–799 Symptoms, Signs, and Ill-Defined Conditions

E800–E999 External Causes of Injury and Poisoning
including: railway accidents (E800–E807)
motor vehicle traffic accidents (E810–E819)
motor vehicle non-traffic accidents (E820–E825)
water transport accidents (E830–E838)
air transport accidents (E840–E848)
accidental poisoning (E850–E869)
misadventures to patients during medical care (E870–E876)
accidental falls (E880–E888)
accidents caused by fire (E890–E899)
accidents due to environmental factors (E900–E909)
accidents caused by submersion (E910–E915)
accidents caused by machinery (E919)
accidents caused by firearms (E922)
drugs causing adverse effects in therapeutic use (E930–E949)
suicide (E950–E959)
homicide (E960–E969)
injury undetermined whether accidently or purposely inflicted (E980–E989)

M121

IMPORTANT NOTE CONCERNING THE FOLLOWING PAGES

THE PAGES WHICH FOLLOW HAVE BEEN FILMED TWICE IN ORDER TO OBTAIN THE BEST REPRODUCTIVE QUALITY

USERS SHOULD CONSULT ALL THE PAGES REPRODUCED ON THE FICHE IN ORDER TO OBTAIN A COMPLETE READING OF THE TEXT.

REMARQUE IMPORTANTE CONCERNANT LES PAGES QUI SUIVENT

LES PAGES SUIVANTES ONT ÉTÉ REPRODUITES EN DOUBLE AFIN D'AMÉLIORER LA QUALITÉ DE REPRODUCTION

LES UTILISATEURS DOIVENT CONSULTER TOUTES LES PAGES REPRODUITES SUR LA FICHE AFIN D'OBTENIR LA LECTURE DU TEXTE INTÉGRAL

micromedia
a division of IHS Canada

20 Victoria Street
Toronto, Ontario M5C 2N8
Tel.: (416) 362-5211
Toll Free: 1-800-387-2689
Fax: (416) 362-6161
Email: info@micromedia.on.ca

APPENDIX 2

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1999

ICD9	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
008	Intestinal infections due to other organisms	M	–	–	–	–	–	–	–	–	3	2	5
		F	–	–	1	–	–	–	–	–	4	4	9
011	Pulmonary tuberculosis	M	–	–	–	–	–	–	–	–	4	1	5
		F	–	–	–	–	–	–	–	1	–	–	1
038	Septicaemia	M	2	1	–	–	–	–	3	11	30	31	78
		F	1	–	–	–	–	–	5	10	19	42	77
040	Other bacterial diseases	M	–	–	–	–	–	–	–	3	2	–	5
		F	–	–	–	–	–	–	1	–	2	1	4
042	AIDS/HIV infection with specified conditions	M	–	–	1	–	–	–	53	29	2	–	85
		F	–	–	–	–	–	–	10	1	–	–	11
046	Slow virus infections of central nervous system	M	–	–	–	–	–	–	–	2	1	1	4
		F	–	–	–	–	–	–	–	–	2	–	2
070	Viral hepatitis	M	–	–	–	–	–	–	13	28	11	4	56
		F	–	–	–	–	–	–	2	5	14	2	23
078	Other diseases due to viruses and chlamydiae	M	–	–	–	–	–	–	–	–	–	–	–
		F	–	–	–	1	–	–	–	–	2	4	7
117	Other mycoses	M	–	–	–	–	–	–	1	1	4	1	7
		F	–	–	–	–	–	–	1	2	1	–	4
137	Late effects of tuberculosis	M	–	–	–	–	–	–	–	1	2	–	3
		F	–	–	–	–	–	–	–	–	2	3	5
141	Malignant neoplasm of tongue	M	–	–	–	–	–	–	–	4	6	2	12
		F	–	–	–	–	–	–	–	3	3	3	9
142	Malignant neoplasm of major salivary glands	M	–	–	–	–	–	–	1	1	1	4	7
		F	–	–	–	–	–	–	1	1	1	2	5
144	Malignant neoplasm of floor of mouth	M	–	–	–	–	–	–	–	3	2	–	5
		F	–	–	–	–	–	–	–	–	–	–	–
145	Malignant neoplasm of other and unspecified parts of mouth	M	–	–	–	–	–	–	–	4	2	2	8
		F	–	–	–	–	–	–	–	2	4	3	9
146	Malignant neoplasm of oropharynx	M	–	–	–	–	–	–	–	5	3	1	9
		F	–	–	–	–	–	–	1	1	1	–	3
147	Malignant neoplasm of nasopharynx	M	–	–	–	–	–	–	3	11	5	–	19
		F	–	–	–	–	–	–	1	1	1	2	5
148	Malignant neoplasm of hypopharynx	M	–	–	–	–	–	–	–	1	3	–	4
		F	–	–	–	–	–	–	–	–	1	–	1
149	Malig neo of oth and ill-defined sites of lip, oral cavity and pharynx	M	–	–	–	–	–	–	–	4	12	3	19
		F	–	–	–	–	–	–	1	4	2	1	8
150	Malignant neoplasm of oesophagus	M	–	–	–	–	–	–	3	36	77	26	142
		F	–	–	–	–	–	–	–	15	20	15	50
151	Malignant neoplasm of stomach	M	–	–	–	–	–	–	5	29	59	34	127
		F	–	–	–	–	–	–	4	14	37	35	90
152	Malignant neoplasm of small intestine, including duodenum	M	–	–	–	–	–	–	1	3	3	2	9
		F	–	–	–	–	–	–	1	2	2	4	9
153	Malignant neoplasm of colon	M	–	–	–	–	–	–	8	64	151	73	296
		F	–	–	–	–	–	–	4	43	100	107	254
154	Malignant neoplasm of rectum, rectosigmoid junction and anus	M	–	–	–	–	–	–	5	18	44	20	87
		F	–	–	–	–	–	–	1	7	16	23	47
155	Malignant neoplasm of liver and intrahepatic bile ducts	M	–	–	–	–	–	–	7	34	51	16	108
		F	–	–	–	–	–	–	1	10	29	21	61
156	Malignant neoplasm of gallbladder and extrahepatic bile ducts	M	–	–	–	–	–	–	–	5	14	8	27
		F	–	–	–	–	–	–	2	4	9	14	29
157	Malignant neoplasm of pancreas	M	–	–	–	–	–	–	5	64	100	50	219
		F	–	–	–	–	–	–	3	37	96	64	200
158	Malignant neoplasm of retroperitoneum and peritoneum	M	–	–	–	–	–	–	–	1	3	1	5
		F	–	–	–	–	–	–	–	2	3	3	8
159	Malig neo of oth and ill-defined sites of digest organs and peritoneum	M	–	–	–	–	–	–	2	17	52	31	102
		F	–	–	–	–	–	–	4	13	53	35	105
161	Malignant neoplasm of larynx	M	–	–	–	–	–	–	–	8	17	2	27
		F	–	–	–	–	–	–	–	–	8	3	11
162	Malignant neoplasm of trachea, bronchus and lung	M	–	–	–	–	–	–	17	291	604	222	1,134
		F	–	–	–	–	–	1	15	238	416	193	863

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1999

ICD9	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
164	Malignant neoplasm of thymus, heart and mediastinum	M	–	–	–	–	–	–	1	1	–	–	2
		F	–	–	–	–	–	–	–	2	–	1	3
170	Malignant neoplasm of bone and articular cartilage	M	–	–	–	2	2	–	3	3	1	2	13
		F	–	–	–	–	–	–	–	1	2	2	5
171	Malignant neoplasm of connective and other soft tissue	M	–	1	–	–	–	1	6	6	13	4	31
		F	–	–	–	1	1	–	3	9	6	8	28
172	Malignant melanoma of skin	M	–	–	–	–	–	1	11	22	24	8	66
		F	–	–	–	–	–	–	8	6	7	8	29
173	Other malignant neoplasm of skin	M	–	–	–	–	–	–	–	–	10	4	14
		F	–	–	–	–	–	–	–	–	–	5	5
174	Malignant neoplasm of female breast	M	–	–	–	–	–	–	–	–	–	–	–
		F	–	–	–	–	–	–	52	189	204	130	575
175	Malignant neoplasm of male breast	M	–	–	–	–	–	–	–	1	3	3	7
		F	–	–	–	–	–	–	–	–	–	–	–
179	Malignant neoplasm of uterus, part unspecified	M	–	–	–	–	–	–	–	–	–	–	–
		F	–	–	–	–	–	–	–	7	15	13	35
180	Malignant neoplasm of cervix uteri	M	–	–	–	–	–	–	–	–	–	–	–
		F	–	–	–	–	–	–	9	21	7	9	46
182	Malignant neoplasm of body of uterus	M	–	–	–	–	–	–	–	–	–	–	–
		F	–	–	–	–	–	–	–	5	18	12	35
183	Malignant neoplasm of ovary and other uterine adnexa	M	–	–	–	–	–	–	–	–	–	–	–
		F	–	–	–	–	–	–	6	52	92	49	199
184	Malignant neoplasm of other and unspecified female genital organs	M	–	–	–	–	–	–	–	–	–	–	–
		F	–	–	–	–	–	–	1	1	5	3	10
185	Malignant neoplasm of prostate	M	–	–	–	–	–	–	–	30	220	253	503
		F	–	–	–	–	–	–	–	–	–	–	–
188	Malignant neoplasm of bladder	M	–	–	–	–	–	–	1	23	70	48	142
		F	–	–	–	–	–	–	–	7	23	31	61
189	Malignant neoplasm of kidney and other and unspecified urinary organs	M	–	–	–	–	–	–	3	34	48	35	120
		F	–	–	–	–	–	–	2	9	29	28	68
191	Malignant neoplasm of brain	M	1	–	3	–	1	3	13	35	32	11	99
		F	–	1	2	–	1	1	6	25	28	13	77
193	Malignant neoplasm of thyroid gland	M	–	–	–	–	–	–	–	5	3	2	10
		F	–	–	–	–	–	–	–	1	4	5	10
194	Malignant neoplasm of other endocrine glands and related structures	M	–	–	–	–	–	–	1	3	1	–	5
		F	–	2	1	–	1	–	1	1	2	–	8
195	Malignant neoplasm of other and ill-defined sites	M	–	–	–	–	–	–	–	2	14	4	20
		F	–	–	–	–	–	–	–	2	7	9	18
199	Malignant neoplasm without specification of site	M	–	–	–	–	–	1	7	52	119	56	235
		F	–	–	–	–	–	2	6	42	79	78	207
200	Lymphosarcoma and reticulosarcoma	M	–	–	–	–	1	–	–	3	2	1	7
		F	–	–	–	–	–	–	1	2	1	–	4
201	Hodgkin's disease	M	–	–	–	–	1	–	4	1	2	3	11
		F	–	–	–	–	–	–	–	1	3	2	6
202	Other malignant neoplasm of lymphoid and histiocytic tissue	M	–	–	–	–	1	1	11	38	79	42	172
		F	–	–	–	–	–	–	4	16	65	49	134
203	Multiple myeloma and immunoproliferative neoplasms	M	–	–	–	–	–	–	1	10	44	17	72
		F	–	–	–	–	–	–	–	15	39	16	70
204	Lymphoid leukaemia	M	–	1	1	–	–	–	1	6	18	10	37
		F	–	–	–	1	–	–	2	5	11	14	33
205	Myeloid leukaemia	M	–	–	–	–	–	–	3	19	29	12	63
		F	–	–	–	–	1	1	4	7	27	11	51
208	Leukaemia of unspecified cell type	M	–	–	–	–	–	–	1	6	16	13	36
		F	–	–	–	–	–	1	–	6	15	14	36
225	Benign neoplasm of brain and other parts of nervous system	M	–	–	–	–	–	–	–	–	2	–	2
		F	–	–	–	–	–	–	–	2	1	6	9
238	Neoplasm of uncertain behaviour of other and unspecified sites and tissues	M	–	–	–	–	–	–	1	2	11	7	21
		F	–	–	–	–	–	–	–	1	5	10	16
239	Tumour of unspecified nature	M	–	–	–	1	–	–	3	14	9	11	38
		F	–	–	–	–	–	–	1	4	13	22	40

Note: Only causes with five or more deaths are shown.

APPENDIX 2
DETAILED CAUSE OF DEATH BY GENDER AND AGE
BRITISH COLUMBIA, 1999

ICD9	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
008	Intestinal infections due to other organisms	M	–	–	–	–	–	–	–	–	3	2	5
		F	–	–	1	–	–	–	–	–	4	4	9
011	Pulmonary tuberculosis	M	–	–	–	–	–	–	–	–	4	1	5
		F	–	–	–	–	–	–	–	1	–	–	1
038	Septicaemia	M	2	1	–	–	–	–	3	11	30	31	78
		F	1	–	–	–	–	–	5	10	19	42	77
040	Other bacterial diseases	M	–	–	–	–	–	–	–	3	2	–	5
		F	–	–	–	–	–	–	1	–	2	1	4
042	AIDS/HIV infection with specified conditions	M	–	–	1	–	–	–	53	29	2	–	85
		F	–	–	–	–	–	–	10	1	–	–	11
046	Slow virus infections of central nervous system	M	–	–	–	–	–	–	–	2	1	1	4
		F	–	–	–	–	–	–	–	–	2	–	2
070	Viral hepatitis	M	–	–	–	–	–	–	13	28	11	4	56
		F	–	–	–	–	–	–	2	5	14	2	23
078	Other diseases due to viruses and chlamydiae	M	–	–	–	–	–	–	–	–	–	–	–
		F	–	–	–	1	–	–	–	–	2	4	7
117	Other mycoses	M	–	–	–	–	–	–	1	1	4	1	7
		F	–	–	–	–	–	–	1	2	1	–	4
137	Late effects of tuberculosis	M	–	–	–	–	–	–	–	1	2	–	3
		F	–	–	–	–	–	–	–	–	2	3	5
141	Malignant neoplasm of tongue	M	–	–	–	–	–	–	–	4	6	2	12
		F	–	–	–	–	–	–	–	3	3	3	9
142	Malignant neoplasm of major salivary glands	M	–	–	–	–	–	–	1	1	1	4	7
		F	–	–	–	–	–	–	1	1	1	2	5
144	Malignant neoplasm of floor of mouth	M	–	–	–	–	–	–	–	3	2	–	5
		F	–	–	–	–	–	–	–	–	–	–	–
145	Malignant neoplasm of other and unspecified parts of mouth	M	–	–	–	–	–	–	–	4	2	2	8
		F	–	–	–	–	–	–	–	2	4	3	9
146	Malignant neoplasm of oropharynx	M	–	–	–	–	–	–	–	5	3	1	9
		F	–	–	–	–	–	–	1	1	1	–	3
147	Malignant neoplasm of nasopharynx	M	–	–	–	–	–	–	3	11	5	–	19
		F	–	–	–	–	–	–	1	1	1	2	5
148	Malignant neoplasm of hypopharynx	M	–	–	–	–	–	–	–	1	3	–	4
		F	–	–	–	–	–	–	–	–	1	–	1
149	Malig neo of oth and ill-defined sites of lip, oral cavity and pharynx	M	–	–	–	–	–	–	–	4	12	3	19
		F	–	–	–	–	–	–	1	4	2	1	8
150	Malignant neoplasm of oesophagus	M	–	–	–	–	–	–	3	36	77	26	142
		F	–	–	–	–	–	–	–	15	20	15	50
151	Malignant neoplasm of stomach	M	–	–	–	–	–	–	5	29	59	34	127
		F	–	–	–	–	–	–	4	14	37	35	90
152	Malignant neoplasm of small intestine, including duodenum	M	–	–	–	–	–	–	1	3	3	2	9
		F	–	–	–	–	–	–	1	2	2	4	9
153	Malignant neoplasm of colon	M	–	–	–	–	–	–	8	64	151	73	296
		F	–	–	–	–	–	–	4	43	100	107	254
154	Malignant neoplasm of rectum, rectosigmoid junction and anus	M	–	–	–	–	–	–	5	18	44	20	87
		F	–	–	–	–	–	–	1	7	16	23	47
155	Malignant neoplasm of liver and intrahepatic bile ducts	M	–	–	–	–	–	–	7	34	51	16	108
		F	–	–	–	–	–	–	1	10	29	21	61
156	Malignant neoplasm of gallbladder and extrahepatic bile ducts	M	–	–	–	–	–	–	–	5	14	8	27
		F	–	–	–	–	–	–	2	4	9	14	29
157	Malignant neoplasm of pancreas	M	–	–	–	–	–	–	5	64	100	50	219
		F	–	–	–	–	–	–	3	37	96	64	200
158	Malignant neoplasm of retroperitoneum and peritoneum	M	–	–	–	–	–	–	–	1	3	1	5
		F	–	–	–	–	–	–	–	2	3	3	8
159	Malig neo of oth and ill-defined sites of digest organs and peritoneum	M	–	–	–	–	–	–	2	17	52	31	102
		F	–	–	–	–	–	–	4	13	53	35	105
161	Malignant neoplasm of larynx	M	–	–	–	–	–	–	–	8	17	2	27
		F	–	–	–	–	–	–	–	–	8	3	11
162	Malignant neoplasm of trachea, bronchus and lung	M	–	–	–	–	–	–	17	291	604	222	1,134
		F	–	–	–	–	–	1	15	238	416	193	863

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1999

ICD9	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
164	Malignant neoplasm of thymus, heart and mediastinum	M	–	–	–	–	–	–	1	1	–	–	2
		F	–	–	–	–	–	–	–	2	–	1	3
170	Malignant neoplasm of bone and articular cartilage	M	–	–	–	2	2	–	3	3	1	2	13
		F	–	–	–	–	–	–	–	1	2	2	5
171	Malignant neoplasm of connective and other soft tissue	M	–	1	–	–	–	1	6	6	13	4	31
		F	–	–	–	1	1	–	3	9	6	8	28
172	Malignant melanoma of skin	M	–	–	–	–	–	1	11	22	24	8	66
		F	–	–	–	–	–	–	8	6	7	8	29
173	Other malignant neoplasm of skin	M	–	–	–	–	–	–	–	–	10	4	14
		F	–	–	–	–	–	–	–	–	–	5	5
174	Malignant neoplasm of female breast	M	–	–	–	–	–	–	–	–	–	–	–
		F	–	–	–	–	–	–	52	189	204	130	575
175	Malignant neoplasm of male breast	M	–	–	–	–	–	–	–	1	3	3	7
		F	–	–	–	–	–	–	–	–	–	–	–
179	Malignant neoplasm of uterus, part unspecified	M	–	–	–	–	–	–	–	–	–	–	–
		F	–	–	–	–	–	–	–	7	15	13	35
180	Malignant neoplasm of cervix uteri	M	–	–	–	–	–	–	–	–	–	–	–
		F	–	–	–	–	–	–	9	21	7	9	46
182	Malignant neoplasm of body of uterus	M	–	–	–	–	–	–	–	–	–	–	–
		F	–	–	–	–	–	–	–	5	18	12	35
183	Malignant neoplasm of ovary and other uterine adnexa	M	–	–	–	–	–	–	–	–	–	–	–
		F	–	–	–	–	–	–	6	52	92	49	199
184	Malignant neoplasm of other and unspecified female genital organs	M	–	–	–	–	–	–	–	–	–	–	–
		F	–	–	–	–	–	–	1	1	5	3	10
185	Malignant neoplasm of prostate	M	–	–	–	–	–	–	–	30	220	253	503
		F	–	–	–	–	–	–	–	–	–	–	–
188	Malignant neoplasm of bladder	M	–	–	–	–	–	–	1	23	70	48	142
		F	–	–	–	–	–	–	–	7	23	31	61
189	Malignant neoplasm of kidney and other and unspecified urinary organs	M	–	–	–	–	–	–	3	34	48	35	120
		F	–	–	–	–	–	–	2	9	29	28	68
191	Malignant neoplasm of brain	M	1	–	3	–	1	3	13	35	32	11	99
		F	–	1	2	–	1	1	6	25	28	13	77
193	Malignant neoplasm of thyroid gland	M	–	–	–	–	–	–	–	5	3	2	10
		F	–	–	–	–	–	–	–	1	4	5	10
194	Malignant neoplasm of other endocrine glands and related structures	M	–	–	–	–	–	–	1	3	1	–	5
		F	–	2	1	–	1	–	1	1	2	–	8
195	Malignant neoplasm of other and ill-defined sites	M	–	–	–	–	–	–	–	2	14	4	20
		F	–	–	–	–	–	–	–	2	7	9	18
199	Malignant neoplasm without specification of site	M	–	–	–	–	–	1	7	52	119	56	235
		F	–	–	–	–	–	2	6	42	79	78	207
200	Lymphosarcoma and reticulosarcoma	M	–	–	–	–	1	–	–	3	2	1	7
		F	–	–	–	–	–	–	1	2	1	–	4
201	Hodgkin's disease	M	–	–	–	–	1	–	4	1	2	3	11
		F	–	–	–	–	–	–	–	1	3	2	6
202	Other malignant neoplasm of lymphoid and histiocytic tissue	M	–	–	–	–	1	1	11	38	79	42	172
		F	–	–	–	–	–	–	4	16	65	49	134
203	Multiple myeloma and immunoproliferative neoplasms	M	–	–	–	–	–	–	1	10	44	17	72
		F	–	–	–	–	–	–	–	15	39	16	70
204	Lymphoid leukaemia	M	–	1	1	–	–	–	1	6	18	10	37
		F	–	–	–	1	–	–	2	5	11	14	33
205	Myeloid leukaemia	M	–	–	–	–	–	–	3	19	29	12	63
		F	–	–	–	–	1	1	4	7	27	11	51
208	Leukaemia of unspecified cell type	M	–	–	–	–	–	–	1	6	16	13	36
		F	–	–	–	–	–	1	–	6	15	14	36
225	Benign neoplasm of brain and other parts of nervous system	M	–	–	–	–	–	–	–	–	2	–	2
		F	–	–	–	–	–	–	–	2	1	6	9
238	Neoplasm of uncertain behaviour of other and unspecified sites and tissues	M	–	–	–	–	–	–	1	2	11	7	21
		F	–	–	–	–	–	–	–	1	5	10	16
239	Tumour of unspecified nature	M	–	–	–	1	–	–	3	14	9	11	38
		F	–	–	–	–	–	–	1	4	13	22	40

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1999

ICD9	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
250	Diabetes mellitus	M	–	–	–	–	1	2	9	63	141	101	317
		F	–	–	–	1	–	–	5	24	127	127	284
263	Other and unspecified protein-calorie malnutrition	M	–	–	–	–	–	–	–	–	–	5	5
		F	–	–	–	–	–	–	–	–	6	8	14
272	Disorders of lipoid metabolism	M	–	–	–	–	–	–	–	6	7	–	13
		F	–	–	–	–	–	–	–	3	6	3	12
273	Disorders of plasma protein metabolism	M	–	–	–	–	–	–	–	–	4	1	5
		F	–	–	–	–	–	–	–	1	2	3	6
275	Disorders of mineral metabolism	M	–	–	–	–	–	–	–	1	2	–	3
		F	–	–	–	–	–	–	–	–	2	1	3
276	Disorders of fluid, electrolyte and acid-base balance	M	–	–	–	–	–	–	–	1	3	16	20
		F	–	–	–	–	–	–	–	–	11	31	42
277	Other and unspecified disorders of metabolism	M	1	–	–	–	–	–	2	7	3	1	14
		F	–	3	–	1	2	–	–	3	3	1	13
278	Obesity and other hyperalimentation	M	–	–	–	–	–	–	–	8	3	1	12
		F	–	–	–	–	–	–	1	4	3	3	11
279	Disorders involving the immune mechanism	M	–	–	–	–	–	–	–	–	–	–	–
		F	–	–	–	–	–	–	–	–	3	2	5
282	Hereditary haemolytic anaemias	M	–	–	–	–	1	–	–	1	–	1	3
		F	1	–	–	–	–	–	–	–	–	1	2
284	Aplastic anaemia	M	–	–	–	–	1	–	–	–	3	3	7
		F	–	–	–	–	–	–	–	1	1	2	4
285	Other and unspecified anaemias	M	–	–	–	–	–	–	–	1	6	9	16
		F	–	–	–	–	–	–	–	–	2	15	17
286	Coagulation defects	M	–	–	–	–	–	–	1	–	1	4	6
		F	–	–	–	–	–	–	–	1	2	–	3
287	Purpura and other haemorrhagic conditions	M	–	–	–	–	–	–	1	2	3	1	7
		F	–	–	–	–	–	–	–	1	4	–	5
289	Other diseases of blood and blood-forming organs	M	–	–	–	–	–	–	–	–	9	2	11
		F	–	–	–	–	–	–	1	2	3	11	17
290	Senile and presenile organic psychotic conditions	M	–	–	–	–	–	–	–	1	28	95	124
		F	–	–	–	–	–	–	–	1	29	157	187
291	Alcoholic psychoses	M	–	–	–	–	–	–	1	–	6	1	8
		F	–	–	–	–	–	–	–	–	–	–	–
295	Schizophrenic psychoses	M	–	–	–	–	–	–	–	–	1	1	2
		F	–	–	–	–	–	–	–	–	1	6	7
298	Other nonorganic psychoses	M	–	–	–	–	–	–	–	–	15	76	91
		F	–	–	–	–	–	–	–	1	33	186	220
303	Alcoholism	M	–	–	–	–	–	–	5	37	20	4	66
		F	–	–	–	–	–	–	1	11	6	1	19
305	Nondependent abuse of drugs	M	–	–	–	–	–	–	3	2	2	1	8
		F	–	–	–	–	–	–	2	2	–	1	5
307	Special mental health syndromes not elsewhere classified	M	–	–	–	–	–	–	–	–	–	1	1
		F	–	–	–	–	–	–	1	–	–	4	5
310	Specific nonpsychotic mental disorders following organic brain damage	M	–	–	–	–	–	–	1	1	2	7	11
		F	–	–	–	–	–	–	–	–	1	9	10
311	Depressive disorder, not elsewhere classified	M	–	–	–	–	–	–	–	–	2	2	4
		F	–	–	–	–	–	–	–	–	2	13	15
320	Bacterial meningitis	M	1	–	–	–	–	–	–	–	1	–	2
		F	–	1	–	–	1	–	1	–	–	–	3
322	Meningitis of unspecified cause	M	–	–	–	–	–	–	–	1	–	–	1
		F	–	–	–	1	–	–	–	–	3	1	5
323	Encephalitis, myelitis and encephalomyelitis	M	–	–	–	1	–	–	–	1	2	1	5
		F	–	–	–	–	–	–	–	–	1	1	2
331	Other cerebral degenerations	M	–	–	–	–	–	–	–	5	43	56	104
		F	–	–	–	–	–	1	–	2	47	143	193
332	Parkinson's disease	M	–	–	–	–	–	–	–	1	40	55	96
		F	–	–	–	–	–	–	–	1	21	58	80
333	Other extrapyramidal disease and abnormal movement disorders	M	–	–	–	–	–	–	–	1	6	2	9
		F	–	–	–	–	–	–	–	3	9	4	16

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1999

ICD9	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
334	Spinocerebellar disease	M	–	–	–	–	–	–	1	2	2	–	5
		F	–	–	–	–	–	–	–	1	1	1	3
335	Anterior horn cell disease	M	–	–	–	–	–	–	–	12	17	6	35
		F	–	–	–	–	–	–	2	4	15	6	27
340	Multiple sclerosis	M	–	–	–	–	–	–	2	3	7	3	15
		F	–	–	–	–	–	1	7	9	10	4	31
342	Hemiplegia	M	–	–	–	–	–	–	–	–	1	6	7
		F	–	–	–	–	–	–	–	–	–	2	2
344	Other paralytic syndromes	M	–	–	–	–	–	–	1	2	3	1	7
		F	–	–	–	–	–	–	–	–	1	–	1
345	Epilepsy	M	–	–	1	–	–	2	3	3	3	2	14
		F	–	–	–	–	–	2	4	1	4	–	11
348	Other conditions of brain	M	–	–	–	–	–	–	–	–	4	–	4
		F	–	–	–	–	–	–	–	3	5	1	9
349	Other and unspecified disorders of the nervous system	M	–	–	–	–	–	–	–	1	2	1	4
		F	–	–	–	–	–	–	1	–	2	2	5
358	Myoneural disorders	M	–	–	–	–	–	–	–	–	3	–	3
		F	1	–	–	–	–	–	–	–	–	2	3
359	Muscular dystrophies and other myopathies	M	–	–	–	–	–	1	1	2	2	–	6
		F	1	–	–	–	–	–	1	1	–	1	4
394	Diseases of mitral valve	M	–	–	–	–	1	–	–	2	7	3	13
		F	–	–	–	–	–	–	1	4	10	7	22
396	Diseases of mitral and aortic valves	M	–	–	–	–	–	–	–	–	–	–	–
		F	–	–	–	–	–	–	–	1	2	4	7
397	Diseases of other endocardial structures	M	–	–	–	–	–	–	–	–	1	1	2
		F	–	–	–	–	–	–	–	–	–	3	3
398	Other rheumatic heart disease	M	–	–	–	–	–	–	–	1	–	1	2
		F	–	–	–	–	–	–	–	–	4	5	9
401	Essential hypertension	M	–	–	–	–	–	–	–	4	11	11	26
		F	–	–	–	–	–	–	–	2	9	25	36
402	Hypertensive heart disease	M	–	–	–	–	–	–	3	8	9	17	37
		F	–	–	–	–	–	–	–	2	9	29	40
403	Hypertensive renal disease	M	–	–	–	–	–	–	–	1	4	16	21
		F	–	–	–	–	–	–	–	–	9	19	28
404	Hypertensive heart and renal disease	M	–	–	–	–	–	–	–	1	–	3	4
		F	–	–	–	–	–	–	–	–	2	10	12
410	Acute myocardial infarction	M	–	–	–	–	–	1	27	238	671	592	1,529
		F	–	–	–	–	–	–	6	51	371	653	1,081
411	Other acute and subacute forms of ischaemic heart disease	M	–	–	–	–	–	–	1	15	17	7	40
		F	–	–	–	–	–	–	–	4	7	10	21
413	Angina pectoris	M	–	–	–	–	–	–	–	–	6	4	10
		F	–	–	–	–	–	–	–	–	1	11	12
414	Other forms of chronic ischaemic heart disease	M	–	–	–	–	–	1	9	159	473	572	1,214
		F	–	–	–	–	–	–	7	36	203	663	909
415	Acute pulmonary heart disease	M	–	–	–	–	–	–	1	7	16	12	36
		F	–	–	–	–	–	1	3	5	15	15	39
416	Chronic pulmonary heart disease	M	–	–	1	–	–	–	–	1	7	1	10
		F	–	–	–	–	–	–	3	3	5	4	15
421	Acute and subacute endocarditis	M	–	–	–	–	–	1	3	3	2	3	12
		F	–	–	–	–	–	–	2	2	1	–	5
424	Other diseases of endocardium	M	–	–	–	–	–	1	2	10	37	39	89
		F	–	–	–	–	–	–	–	8	25	94	127
425	Cardiomyopathy	M	–	–	–	–	1	1	4	35	80	43	164
		F	–	–	–	–	–	–	2	7	34	39	82
426	Conduction disorders	M	–	–	–	–	–	–	1	1	1	4	7
		F	–	–	–	–	–	–	–	–	1	1	2
427	Cardiac dysrhythmias	M	–	–	–	–	–	–	8	27	73	116	224
		F	–	–	–	1	–	–	2	14	66	221	304
428	Heart failure	M	–	–	–	–	–	–	3	9	94	204	310
		F	–	–	–	–	–	–	–	4	58	355	417

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1999

ICD9	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
250	Diabetes mellitus	M	–	–	–	–	1	2	9	63	141	101	317
		F	–	–	–	1	–	–	5	24	127	127	284
263	Other and unspecified protein-calorie malnutrition	M	–	–	–	–	–	–	–	–	–	5	5
		F	–	–	–	–	–	–	–	–	6	8	14
272	Disorders of lipoid metabolism	M	–	–	–	–	–	–	–	6	7	–	13
		F	–	–	–	–	–	–	–	3	6	3	12
273	Disorders of plasma protein metabolism	M	–	–	–	–	–	–	–	–	4	1	5
		F	–	–	–	–	–	–	–	1	2	3	6
275	Disorders of mineral metabolism	M	–	–	–	–	–	–	–	1	2	–	3
		F	–	–	–	–	–	–	–	–	2	1	3
276	Disorders of fluid, electrolyte and acid-base balance	M	–	–	–	–	–	–	–	1	3	16	20
		F	–	–	–	–	–	–	–	–	11	31	42
277	Other and unspecified disorders of metabolism	M	1	–	–	–	–	–	2	7	3	1	14
		F	–	3	–	1	2	–	–	3	3	1	13
278	Obesity and other hyperalimentation	M	–	–	–	–	–	–	–	8	3	1	12
		F	–	–	–	–	–	–	1	4	3	3	11
279	Disorders involving the immune mechanism	M	–	–	–	–	–	–	–	–	–	–	–
		F	–	–	–	–	–	–	–	–	3	2	5
282	Hereditary haemolytic anaemias	M	–	–	–	–	1	–	–	1	–	1	3
		F	1	–	–	–	–	–	–	–	–	1	2
284	Aplastic anaemia	M	–	–	–	–	1	–	–	–	3	3	7
		F	–	–	–	–	–	–	–	1	1	2	4
285	Other and unspecified anaemias	M	–	–	–	–	–	–	–	1	6	9	16
		F	–	–	–	–	–	–	–	–	2	15	17
286	Coagulation defects	M	–	–	–	–	–	–	1	–	1	4	6
		F	–	–	–	–	–	–	–	1	2	–	3
287	Purpura and other haemorrhagic conditions	M	–	–	–	–	–	–	1	2	3	1	7
		F	–	–	–	–	–	–	–	1	4	–	5
289	Other diseases of blood and blood-forming organs	M	–	–	–	–	–	–	–	–	9	2	11
		F	–	–	–	–	–	–	1	2	3	11	17
290	Senile and presenile organic psychotic conditions	M	–	–	–	–	–	–	–	1	28	95	124
		F	–	–	–	–	–	–	–	1	29	157	187
291	Alcoholic psychoses	M	–	–	–	–	–	–	1	–	6	1	8
		F	–	–	–	–	–	–	–	–	–	–	–
295	Schizophrenic psychoses	M	–	–	–	–	–	–	–	–	1	1	2
		F	–	–	–	–	–	–	–	–	1	6	7
298	Other nonorganic psychoses	M	–	–	–	–	–	–	–	–	15	76	91
		F	–	–	–	–	–	–	–	1	33	186	220
303	Alcoholism	M	–	–	–	–	–	–	5	37	20	4	66
		F	–	–	–	–	–	–	1	11	6	1	19
305	Nondependent abuse of drugs	M	–	–	–	–	–	–	3	2	2	1	8
		F	–	–	–	–	–	–	2	2	–	1	5
307	Special mental health syndromes not elsewhere classified	M	–	–	–	–	–	–	–	–	–	1	1
		F	–	–	–	–	–	–	1	–	–	4	5
310	Specific nonpsychotic mental disorders following organic brain damage	M	–	–	–	–	–	–	1	1	2	7	11
		F	–	–	–	–	–	–	–	–	1	9	10
311	Depressive disorder, not elsewhere classified	M	–	–	–	–	–	–	–	–	2	2	4
		F	–	–	–	–	–	–	–	–	2	13	15
320	Bacterial meningitis	M	1	–	–	–	–	–	–	–	1	–	2
		F	–	1	–	–	1	–	1	–	–	–	3
322	Meningitis of unspecified cause	M	–	–	–	–	–	–	–	1	–	–	1
		F	–	–	–	1	–	–	–	–	3	1	5
323	Encephalitis, myelitis and encephalomyelitis	M	–	–	–	1	–	–	–	1	2	1	5
		F	–	–	–	–	–	–	–	–	1	1	2
331	Other cerebral degenerations	M	–	–	–	–	–	–	–	5	43	56	104
		F	–	–	–	–	–	1	–	2	47	143	193
332	Parkinson's disease	M	–	–	–	–	–	–	–	1	40	55	96
		F	–	–	–	–	–	–	–	1	21	58	80
333	Other extrapyramidal disease and abnormal movement disorders	M	–	–	–	–	–	–	–	1	6	2	9
		F	–	–	–	–	–	–	–	3	9	4	16

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1999

ICD9	Cause of Death	Gender	Age of Deceased (in Years)										Total
			<1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	
334	Spinocerebellar disease	M	–	–	–	–	–	–	1	2	2	–	5
		F	–	–	–	–	–	–	–	1	1	1	3
335	Anterior horn cell disease	M	–	–	–	–	–	–	–	12	17	6	35
		F	–	–	–	–	–	–	2	4	15	6	27
340	Multiple sclerosis	M	–	–	–	–	–	–	2	3	7	3	15
		F	–	–	–	–	–	1	7	9	10	4	31
342	Hemiplegia	M	–	–	–	–	–	–	–	–	1	6	7
		F	–	–	–	–	–	–	–	–	–	2	2
344	Other paralytic syndromes	M	–	–	–	–	–	–	1	2	3	1	7
		F	–	–	–	–	–	–	–	–	1	–	1
345	Epilepsy	M	–	–	1	–	–	2	3	3	3	2	14
		F	–	–	–	–	–	2	4	1	4	–	11
348	Other conditions of brain	M	–	–	–	–	–	–	–	–	4	–	4
		F	–	–	–	–	–	–	–	3	5	1	9
349	Other and unspecified disorders of the nervous system	M	–	–	–	–	–	–	–	1	2	1	4
		F	–	–	–	–	–	–	1	–	2	2	5
358	Myoneural disorders	M	–	–	–	–	–	–	–	–	3	–	3
		F	1	–	–	–	–	–	–	–	–	2	3
359	Muscular dystrophies and other myopathies	M	–	–	–	–	–	1	1	2	2	–	6
		F	1	–	–	–	–	–	1	1	–	1	4
394	Diseases of mitral valve	M	–	–	–	–	1	–	–	2	7	3	13
		F	–	–	–	–	–	–	1	4	10	7	22
396	Diseases of mitral and aortic valves	M	–	–	–	–	–	–	–	–	–	–	–
		F	–	–	–	–	–	–	–	1	2	4	7
397	Diseases of other endocardial structures	M	–	–	–	–	–	–	–	–	1	1	2
		F	–	–	–	–	–	–	–	–	–	3	3
398	Other rheumatic heart disease	M	–	–	–	–	–	–	–	1	–	1	2
		F	–	–	–	–	–	–	–	–	4	5	9
401	Essential hypertension	M	–	–	–	–	–	–	–	4	11	11	26
		F	–	–	–	–	–	–	–	2	9	25	36
402	Hypertensive heart disease	M	–	–	–	–	–	–	3	8	9	17	37
		F	–	–	–	–	–	–	–	2	9	29	40
403	Hypertensive renal disease	M	–	–	–	–	–	–	–	1	4	16	21
		F	–	–	–	–	–	–	–	–	9	19	28
404	Hypertensive heart and renal disease	M	–	–	–	–	–	–	–	1	–	3	4
		F	–	–	–	–	–	–	–	–	2	10	12
410	Acute myocardial infarction	M	–	–	–	–	–	1	27	238	671	592	1,529
		F	–	–	–	–	–	–	6	51	371	653	1,081
411	Other acute and subacute forms of ischaemic heart disease	M	–	–	–	–	–	–	1	15	17	7	40
		F	–	–	–	–	–	–	–	4	7	10	21
413	Angina pectoris	M	–	–	–	–	–	–	–	–	6	4	10
		F	–	–	–	–	–	–	–	–	1	11	12
414	Other forms of chronic ischaemic heart disease	M	–	–	–	–	–	1	9	159	473	572	1,214
		F	–	–	–	–	–	–	7	36	203	663	909
415	Acute pulmonary heart disease	M	–	–	–	–	–	–	1	7	16	12	36
		F	–	–	–	–	–	1	3	5	15	15	39
416	Chronic pulmonary heart disease	M	–	–	1	–	–	–	–	1	7	1	10
		F	–	–	–	–	–	–	3	3	5	4	15
421	Acute and subacute endocarditis	M	–	–	–	–	–	1	3	3	2	3	12
		F	–	–	–	–	–	–	2	2	1	–	5
424	Other diseases of endocardium	M	–	–	–	–	–	1	2	10	37	39	89
		F	–	–	–	–	–	–	–	8	25	94	127
425	Cardiomyopathy	M	–	–	–	–	1	1	4	35	80	43	164
		F	–	–	–	–	–	–	2	7	34	39	82
426	Conduction disorders	M	–	–	–	–	–	–	1	1	1	4	7
		F	–	–	–	–	–	–	–	–	1	1	2
427	Cardiac dysrhythmias	M	–	–	–	–	–	–	8	27	73	116	224
		F	–	–	–	1	–	–	2	14	66	221	304
428	Heart failure	M	–	–	–	–	–	–	3	9	94	204	310
		F	–	–	–	–	–	–	–	4	58	355	417

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1999

ICD9	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
429	Ill-defined descriptions and complications of heart disease	M	–	–	–	–	1	–	1	20	37	35	94
		F	–	–	–	–	–	–	1	2	16	43	62
430	Subarachnoid haemorrhage	M	–	–	–	–	–	1	2	6	15	3	27
		F	–	–	–	1	–	2	12	16	23	5	59
431	Intracerebral haemorrhage	M	–	–	–	–	–	–	2	28	44	28	102
		F	–	–	–	–	–	–	2	17	45	38	102
432	Other and unspecified intracranial haemorrhage	M	–	–	–	–	–	–	–	5	12	5	22
		F	–	–	–	–	–	–	1	3	8	13	25
433	Occlusion and stenosis of precerebral arteries	M	–	–	–	–	–	–	–	2	9	4	15
		F	–	–	–	–	–	–	–	1	5	2	8
434	Occlusion of cerebral arteries	M	–	–	–	–	–	–	4	1	16	31	52
		F	–	–	–	–	–	–	–	3	14	47	64
436	Cerebrovascular accident	M	–	–	–	–	–	–	1	35	235	383	654
		F	–	–	–	–	–	–	–	20	195	676	891
437	Other and ill-defined cerebrovascular disease	M	–	–	–	–	–	–	1	3	11	14	29
		F	–	–	–	–	–	1	–	–	10	49	60
438	Late effects of cerebrovascular disease	M	–	–	–	–	–	–	–	6	34	40	80
		F	–	–	–	–	–	–	–	7	20	56	83
440	Atherosclerosis	M	–	–	–	–	–	–	1	4	19	49	73
		F	–	–	–	–	–	–	–	1	11	63	75
441	Aortic aneurysm	M	–	–	–	–	1	2	4	13	71	57	148
		F	–	–	–	–	–	–	1	6	39	62	108
442	Other aneurysm	M	–	–	–	–	–	–	–	–	2	3	5
		F	–	–	–	–	–	–	–	–	–	–	–
443	Other peripheral vascular disease	M	–	–	–	–	–	–	–	4	19	28	51
		F	–	–	–	–	–	–	–	–	16	27	43
444	Arterial embolism and thrombosis	M	–	–	–	–	–	–	–	1	4	5	10
		F	–	–	–	–	–	–	–	2	–	9	11
446	Polyarteritis nodosa and allied conditions	M	–	–	–	–	–	–	–	1	1	1	3
		F	–	–	–	–	–	–	1	–	2	4	7
447	Other disorders of arteries and arterioles	M	–	–	–	–	–	–	1	1	3	2	7
		F	–	–	–	–	–	–	–	2	5	3	10
451	Phlebitis and thrombophlebitis	M	–	–	–	–	–	–	–	–	7	4	11
		F	–	–	–	–	–	–	–	3	5	5	13
459	Other disorders of circulatory system	M	–	–	–	–	–	–	–	2	5	3	10
		F	–	–	–	–	–	–	–	–	3	4	7
466	Acute bronchitis and bronchiolitis	M	–	–	–	–	–	–	–	1	1	4	6
		F	–	–	–	–	–	–	–	–	–	3	3
480	Viral pneumonia	M	–	–	–	–	–	–	–	–	2	1	3
		F	–	–	–	–	–	–	–	–	1	2	3
481	Pneumococcal pneumonia	M	–	–	–	–	–	–	2	1	6	3	12
		F	–	–	–	–	–	–	1	5	1	2	9
482	Other bacterial pneumonia	M	–	–	–	–	–	–	3	2	5	2	12
		F	2	–	–	–	–	–	1	1	1	3	8
485	Bronchopneumonia, organism unspecified	M	–	–	–	–	–	–	1	12	21	59	93
		F	–	–	–	–	–	–	–	2	19	72	93
486	Pneumonia, organism unspecified	M	–	–	–	–	1	–	8	29	150	360	548
		F	–	–	–	–	1	1	3	23	100	427	555
487	Influenza	M	–	–	–	–	–	–	–	1	12	37	50
		F	–	–	–	–	–	–	–	2	7	57	66
490	Bronchitis, not specified as acute or chronic	M	–	–	–	–	–	–	–	–	1	5	6
		F	–	–	–	–	–	–	–	1	2	6	9
491	Chronic bronchitis	M	–	–	–	–	–	–	1	1	10	7	19
		F	–	–	–	–	–	–	1	2	3	11	17
492	Emphysema	M	–	–	–	–	–	–	1	11	30	30	72
		F	–	–	–	–	–	–	–	7	30	27	64
493	Asthma	M	–	–	–	1	–	–	1	6	11	12	31
		F	–	–	–	–	1	–	4	2	18	18	43
494	Bronchiectasis	M	–	–	–	–	–	–	–	–	6	–	6
		F	–	–	–	–	–	–	1	3	3	9	16

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1999

ICD9	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
496	Chronic obstructive lung disease	M	–	–	–	–	–	–	1	34	260	290	585
		F	–	–	–	–	–	–	–	22	191	228	441
502	Pneumoconiosis due to other silica or silicates	M	–	–	–	–	–	–	–	–	2	3	5
		F	–	–	–	–	–	–	–	–	–	–	–
507	Pneumonitis due to solids and liquids	M	–	–	–	–	–	–	1	3	18	42	64
		F	–	–	–	–	–	–	–	4	5	47	56
511	Pleurisy	M	–	–	–	–	–	–	–	–	3	1	4
		F	–	–	–	–	–	–	–	1	–	5	6
515	Pulmonary fibrosis	M	–	–	–	–	–	–	–	9	34	23	66
		F	–	–	–	–	–	–	–	6	21	24	51
516	Other alveolar and parietoalveolar pneumopathy	M	–	–	–	–	–	1	1	1	1	6	10
		F	–	–	–	–	–	–	–	1	1	–	2
518	Other diseases of lung	M	–	–	–	–	–	–	1	2	6	12	21
		F	–	–	–	–	–	–	1	3	10	10	24
519	Other diseases of respiratory system	M	–	–	–	–	–	–	–	1	2	7	10
		F	–	–	–	–	–	–	–	–	2	13	15
530	Diseases of oesophagus	M	–	–	–	–	–	–	2	1	5	10	18
		F	–	–	–	–	–	–	–	3	4	15	22
531	Gastric ulcer	M	–	–	–	–	–	–	–	1	5	6	12
		F	–	–	–	–	–	–	–	1	7	8	16
532	Duodenal ulcer	M	–	–	–	–	–	–	1	4	10	4	19
		F	–	–	–	–	–	–	–	1	5	5	11
533	Peptic ulcer, site unspecified	M	–	–	–	–	–	–	1	1	–	3	5
		F	–	–	–	–	–	–	–	1	3	7	11
535	Gastritis and duodenitis	M	–	–	–	–	–	–	1	1	1	2	5
		F	–	–	–	–	–	–	3	1	1	–	5
552	Other hernia of abdom cavity with obstruct, without mention of gangrene	M	–	–	–	–	–	–	1	–	–	3	4
		F	–	–	–	–	–	–	–	–	–	4	4
553	Other hernia of abdom cavity without mention of obstruction or gangrene	M	–	–	–	–	–	–	–	–	2	3	5
		F	–	–	–	–	–	–	–	–	–	9	9
555	Regional enteritis or Crohn's disease	M	–	–	–	–	–	–	–	–	–	2	2
		F	–	–	–	–	–	–	1	–	2	1	4
556	Idiopathic proctocolitis	M	–	–	–	–	–	–	–	1	1	3	5
		F	–	–	–	–	–	–	–	–	1	2	3
557	Vascular insufficiency of intestine	M	–	–	–	–	–	–	–	3	14	14	31
		F	–	–	–	–	–	–	2	3	16	34	55
558	Other noninfective gastroenteritis and colitis	M	–	–	–	–	–	–	–	–	3	5	8
		F	–	–	–	–	–	–	1	–	2	12	15
560	Intestinal obstruction without mention of hernia	M	–	1	–	–	–	–	–	2	11	9	23
		F	–	–	–	–	–	–	–	2	11	23	36
562	Diverticula of intestine	M	–	–	–	–	–	–	–	–	4	4	8
		F	–	–	–	–	–	–	–	1	13	23	37
567	Peritonitis	M	–	–	–	–	–	–	–	2	5	3	10
		F	–	–	–	–	–	–	–	2	4	2	8
569	Other disorders of intestine	M	–	–	–	–	–	–	–	1	5	5	11
		F	–	–	–	–	–	–	–	3	2	5	10
571	Chronic liver disease and cirrhosis	M	–	–	–	–	–	–	15	70	70	16	171
		F	–	–	–	–	–	–	5	36	28	16	85
572	Liver abscess and sequelae of chronic liver disease	M	–	–	–	–	–	–	–	11	11	3	25
		F	–	–	–	–	–	–	–	9	9	5	23
573	Other disorders of liver	M	–	–	–	–	–	–	–	3	3	4	10
		F	–	–	–	–	–	–	–	7	2	1	10
574	Cholelithiasis	M	–	–	–	–	–	–	1	1	–	1	3
		F	–	–	–	–	–	–	–	1	2	1	4
575	Other disorders of gallbladder	M	–	–	–	–	–	–	–	1	6	6	13
		F	–	–	–	–	–	–	–	1	4	6	11
576	Other disorders of biliary tract	M	–	–	–	–	–	–	–	1	3	1	5
		F	–	–	–	–	–	–	1	1	–	7	9
577	Diseases of pancreas	M	–	–	–	–	–	–	1	4	7	4	16
		F	–	–	–	–	–	–	1	3	8	5	17

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1999

ICD9	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
429	Ill-defined descriptions and complications of heart disease	M	–	–	–	–	1	–	1	20	37	35	94
		F	–	–	–	–	–	–	1	2	16	43	62
430	Subarachnoid haemorrhage	M	–	–	–	–	–	1	2	6	15	3	27
		F	–	–	–	1	–	2	12	16	23	5	59
431	Intracerebral haemorrhage	M	–	–	–	–	–	–	2	28	44	28	102
		F	–	–	–	–	–	–	2	17	45	38	102
432	Other and unspecified intracranial haemorrhage	M	–	–	–	–	–	–	–	5	12	5	22
		F	–	–	–	–	–	–	1	3	8	13	25
433	Occlusion and stenosis of precerebral arteries	M	–	–	–	–	–	–	–	2	9	4	15
		F	–	–	–	–	–	–	–	1	5	2	8
434	Occlusion of cerebral arteries	M	–	–	–	–	–	–	4	1	16	31	52
		F	–	–	–	–	–	–	–	3	14	47	64
436	Cerebrovascular accident	M	–	–	–	–	–	–	1	35	235	383	654
		F	–	–	–	–	–	–	–	20	195	676	891
437	Other and ill-defined cerebrovascular disease	M	–	–	–	–	–	–	1	3	11	14	29
		F	–	–	–	–	–	1	–	–	10	49	60
438	Late effects of cerebrovascular disease	M	–	–	–	–	–	–	–	6	34	40	80
		F	–	–	–	–	–	–	–	7	20	56	83
440	Atherosclerosis	M	–	–	–	–	–	–	1	4	19	49	73
		F	–	–	–	–	–	–	–	1	11	63	75
441	Aortic aneurysm	M	–	–	–	–	1	2	4	13	71	57	148
		F	–	–	–	–	–	–	1	6	39	62	108
442	Other aneurysm	M	–	–	–	–	–	–	–	–	2	3	5
		F	–	–	–	–	–	–	–	–	–	–	–
443	Other peripheral vascular disease	M	–	–	–	–	–	–	–	4	19	28	51
		F	–	–	–	–	–	–	–	–	16	27	43
444	Arterial embolism and thrombosis	M	–	–	–	–	–	–	–	1	4	5	10
		F	–	–	–	–	–	–	–	2	–	9	11
446	Polyarteritis nodosa and allied conditions	M	–	–	–	–	–	–	–	1	1	1	3
		F	–	–	–	–	–	–	1	–	2	4	7
447	Other disorders of arteries and arterioles	M	–	–	–	–	–	–	1	1	3	2	7
		F	–	–	–	–	–	–	–	2	5	3	10
451	Phlebitis and thrombophlebitis	M	–	–	–	–	–	–	–	–	7	4	11
		F	–	–	–	–	–	–	–	3	5	5	13
459	Other disorders of circulatory system	M	–	–	–	–	–	–	–	2	5	3	10
		F	–	–	–	–	–	–	–	–	3	4	7
466	Acute bronchitis and bronchiolitis	M	–	–	–	–	–	–	–	1	1	4	6
		F	–	–	–	–	–	–	–	–	–	3	3
480	Viral pneumonia	M	–	–	–	–	–	–	–	–	2	1	3
		F	–	–	–	–	–	–	–	–	1	2	3
481	Pneumococcal pneumonia	M	–	–	–	–	–	–	2	1	6	3	12
		F	–	–	–	–	–	–	1	5	1	2	9
482	Other bacterial pneumonia	M	–	–	–	–	–	–	3	2	5	2	12
		F	2	–	–	–	–	–	1	1	1	3	8
485	Bronchopneumonia, organism unspecified	M	–	–	–	–	–	–	1	12	21	59	93
		F	–	–	–	–	–	–	–	2	19	72	93
486	Pneumonia, organism unspecified	M	–	–	–	–	1	–	8	29	150	360	548
		F	–	–	–	–	1	1	3	23	100	427	555
487	Influenza	M	–	–	–	–	–	–	–	1	12	37	50
		F	–	–	–	–	–	–	–	2	7	57	66
490	Bronchitis, not specified as acute or chronic	M	–	–	–	–	–	–	–	–	1	5	6
		F	–	–	–	–	–	–	–	1	2	6	9
491	Chronic bronchitis	M	–	–	–	–	–	–	1	1	10	7	19
		F	–	–	–	–	–	–	1	2	3	11	17
492	Emphysema	M	–	–	–	–	–	–	1	11	30	30	72
		F	–	–	–	–	–	–	–	7	30	27	64
493	Asthma	M	–	–	–	1	–	–	1	6	11	12	31
		F	–	–	–	–	1	–	4	2	18	18	43
494	Bronchiectasis	M	–	–	–	–	–	–	–	–	6	–	6
		F	–	–	–	–	–	–	1	3	3	9	16

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1999

ICD9	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
496	Chronic obstructive lung disease	M	–	–	–	–	–	–	1	34	260	290	585
		F	–	–	–	–	–	–	–	22	191	228	441
502	Pneumoconiosis due to other silica or silicates	M	–	–	–	–	–	–	–	–	2	3	5
		F	–	–	–	–	–	–	–	–	–	–	–
507	Pneumonitis due to solids and liquids	M	–	–	–	–	–	–	1	3	18	42	64
		F	–	–	–	–	–	–	–	4	5	47	56
511	Pleurisy	M	–	–	–	–	–	–	–	–	3	1	4
		F	–	–	–	–	–	–	–	1	–	5	6
515	Pulmonary fibrosis	M	–	–	–	–	–	–	–	9	34	23	66
		F	–	–	–	–	–	–	–	6	21	24	51
516	Other alveolar and parietoalveolar pneumopathy	M	–	–	–	–	–	1	1	1	1	6	10
		F	–	–	–	–	–	–	–	1	1	–	2
518	Other diseases of lung	M	–	–	–	–	–	–	1	2	6	12	21
		F	–	–	–	–	–	–	1	3	10	10	24
519	Other diseases of respiratory system	M	–	–	–	–	–	–	–	1	2	7	10
		F	–	–	–	–	–	–	–	–	2	13	15
530	Diseases of oesophagus	M	–	–	–	–	–	–	2	1	5	10	18
		F	–	–	–	–	–	–	–	3	4	15	22
531	Gastric ulcer	M	–	–	–	–	–	–	–	1	5	6	12
		F	–	–	–	–	–	–	–	1	7	8	16
532	Duodenal ulcer	M	–	–	–	–	–	–	1	4	10	4	19
		F	–	–	–	–	–	–	–	1	5	5	11
533	Peptic ulcer, site unspecified	M	–	–	–	–	–	–	1	1	–	3	5
		F	–	–	–	–	–	–	–	1	3	7	11
535	Gastritis and duodenitis	M	–	–	–	–	–	–	1	1	1	2	5
		F	–	–	–	–	–	–	3	1	1	–	5
552	Other hernia of abdom cavity with obstruct, without mention of gangrene	M	–	–	–	–	–	–	1	–	–	3	4
		F	–	–	–	–	–	–	–	–	–	4	4
553	Other hernia of abdom cavity without mention of obstruction or gangrene	M	–	–	–	–	–	–	–	–	2	3	5
		F	–	–	–	–	–	–	–	–	–	9	9
555	Regional enteritis or Crohn's disease	M	–	–	–	–	–	–	–	–	–	2	2
		F	–	–	–	–	–	–	1	–	2	1	4
556	Idiopathic proctocolitis	M	–	–	–	–	–	–	–	1	1	3	5
		F	–	–	–	–	–	–	–	–	1	2	3
557	Vascular insufficiency of intestine	M	–	–	–	–	–	–	–	3	14	14	31
		F	–	–	–	–	–	–	2	3	16	34	55
558	Other noninfective gastroenteritis and colitis	M	–	–	–	–	–	–	–	–	3	5	8
		F	–	–	–	–	–	–	1	–	2	12	15
560	Intestinal obstruction without mention of hernia	M	–	1	–	–	–	–	–	2	11	9	23
		F	–	–	–	–	–	–	–	2	11	23	36
562	Diverticula of intestine	M	–	–	–	–	–	–	–	–	4	4	8
		F	–	–	–	–	–	–	–	1	13	23	37
567	Peritonitis	M	–	–	–	–	–	–	–	2	5	3	10
		F	–	–	–	–	–	–	–	2	4	2	8
569	Other disorders of intestine	M	–	–	–	–	–	–	–	1	5	5	11
		F	–	–	–	–	–	–	–	3	2	5	10
571	Chronic liver disease and cirrhosis	M	–	–	–	–	–	–	15	70	70	16	171
		F	–	–	–	–	–	–	5	36	28	16	85
572	Liver abscess and sequelae of chronic liver disease	M	–	–	–	–	–	–	–	11	11	3	25
		F	–	–	–	–	–	–	–	9	9	5	23
573	Other disorders of liver	M	–	–	–	–	–	–	–	3	3	4	10
		F	–	–	–	–	–	–	–	7	2	1	10
574	Cholelithiasis	M	–	–	–	–	–	–	1	1	–	1	3
		F	–	–	–	–	–	–	–	1	2	1	4
575	Other disorders of gallbladder	M	–	–	–	–	–	–	–	1	6	6	13
		F	–	–	–	–	–	–	–	1	4	6	11
576	Other disorders of biliary tract	M	–	–	–	–	–	–	–	1	3	1	5
		F	–	–	–	–	–	–	1	1	–	7	9
577	Diseases of pancreas	M	–	–	–	–	–	–	1	4	7	4	16
		F	–	–	–	–	–	–	1	3	8	5	17

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1999

ICD9	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
578	Gastrointestinal haemorrhage	M	–	–	–	–	–	–	1	5	19	31	56
		F	–	–	–	–	–	–	–	5	13	59	77
582	Chronic glomerulonephritis	M	–	–	–	–	–	–	–	–	1	–	1
		F	–	–	–	–	–	–	–	–	–	4	4
583	Nephritis and nephropathy, not specified as acute or chronic	M	–	–	–	–	–	–	1	–	3	2	6
		F	–	–	–	–	–	–	–	1	2	–	3
584	Acute renal failure	M	–	–	–	–	–	–	1	–	2	9	12
		F	–	–	–	–	–	–	–	–	5	10	15
585	Chronic renal failure	M	–	–	–	–	–	–	–	1	15	21	37
		F	–	–	–	–	–	–	1	2	5	26	34
586	Renal failure, unspecified	M	–	–	–	–	–	–	2	9	41	48	100
		F	–	–	–	–	–	–	1	3	21	58	83
590	Infections of kidney	M	–	–	–	–	–	–	–	1	–	3	4
		F	–	–	–	–	–	–	–	1	3	3	7
592	Calculus of kidney and ureter	M	–	–	–	–	–	–	1	–	–	–	1
		F	–	–	–	–	–	–	–	–	1	5	6
593	Other disorders of kidney and ureter	M	–	–	–	–	–	–	–	–	–	6	6
		F	–	–	–	–	–	–	–	–	1	–	1
599	Other disorders of urethra and urinary tract	M	–	–	–	–	–	–	–	2	7	22	31
		F	–	–	–	–	–	–	–	2	8	42	52
600	Hyperplasia of prostate	M	–	–	–	–	–	–	–	–	1	8	9
		F	–	–	–	–	–	–	–	–	–	–	–
682	Other cellulitis and abscess	M	–	–	–	–	–	–	–	–	4	1	5
		F	–	–	–	–	–	–	–	–	–	5	5
707	Chronic ulcer of skin	M	–	–	–	–	–	–	–	–	2	3	5
		F	–	–	–	–	–	–	–	–	3	12	15
710	Diffuse diseases of connective tissue	M	–	–	–	–	–	–	1	5	3	1	10
		F	–	–	–	–	–	–	3	7	12	4	26
714	Rheumatoid arthritis and other inflammatory polyarthropathies	M	–	–	–	–	–	–	–	1	5	3	9
		F	–	–	–	–	–	–	–	1	9	5	15
715	Osteoarthrosis and allied disorders	M	–	–	–	–	–	–	–	–	1	–	1
		F	–	–	–	–	–	–	–	1	–	7	8
716	Other and unspecified arthropathies	M	–	–	–	–	–	–	–	–	–	1	1
		F	–	–	–	–	–	–	–	–	–	5	5
728	Disorders of muscle, ligament and fascia	M	–	–	–	–	–	–	–	–	1	1	2
		F	–	–	–	–	–	–	–	–	2	2	4
733	Other disorders of bone and cartilage	M	–	–	–	–	–	–	–	–	1	2	3
		F	–	–	–	–	–	–	–	1	7	15	23
742	Other congenital anomalies of nervous system	M	1	1	–	–	–	–	1	–	1	1	5
		F	2	1	–	–	–	–	–	–	–	1	4
745	Bulbus cordis anomalies and anomalies of cardiac septal closure	M	–	–	–	–	–	–	2	2	3	2	9
		F	1	–	–	–	–	–	2	–	1	1	5
746	Other congenital anomalies of heart	M	3	1	–	1	–	1	2	2	1	–	11
		F	3	–	–	1	–	2	–	–	–	–	6
747	Other congenital anomalies of circulatory system	M	2	–	–	–	–	–	1	4	1	–	8
		F	1	–	–	–	1	–	–	–	2	1	5
748	Congenital anomalies of respiratory system	M	3	–	–	–	–	–	–	–	–	–	3
		F	4	–	–	–	–	–	–	–	–	–	4
753	Congenital anomalies of urinary system	M	–	–	–	–	–	–	–	–	2	1	3
		F	–	–	–	–	–	–	–	1	1	1	3
758	Chromosomal anomalies	M	–	–	–	–	–	–	1	–	–	–	1
		F	4	–	–	–	1	–	1	2	1	–	9
761	Fetus or newborn affected by maternal complications of pregnancy	M	5	–	–	–	–	–	–	–	–	–	5
		F	3	–	–	–	–	–	–	–	–	–	3
762	Fetus or newborn affect by complications of placenta, cord and membranes	M	7	–	–	–	–	–	–	–	–	–	7
		F	8	–	–	–	–	–	–	–	–	–	8
765	Disorders relating to short gestation	M	5	–	–	–	–	–	–	–	–	–	5
		F	1	–	–	–	–	–	–	–	–	–	1
767	Birth trauma	M	1	1	–	–	–	1	–	–	–	–	3
		F	2	–	–	–	–	–	–	–	–	–	2

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1999

ICD9	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
769	Respiratory distress syndrome (RDS)	M	7	–	–	–	–	–	–	–	–	–	7
		F	3	–	–	–	–	–	–	–	–	–	3
770	Other respiratory conditions of fetus and newborn	M	10	–	–	–	–	–	–	–	–	–	10
		F	5	–	–	–	–	–	–	–	–	–	5
771	Infections specific to the perinatal period	M	3	–	–	–	–	–	–	–	–	–	3
		F	2	–	–	–	–	–	–	–	–	–	2
780	General symptoms	M	–	–	–	–	–	–	–	–	1	1	2
		F	–	–	–	–	–	2	–	1	–	2	5
797	Senility without mention of psychosis (old age)	M	–	–	–	–	–	–	–	–	–	11	11
		F	–	–	–	–	–	–	–	–	1	31	32
798	Sudden death, cause unknown	M	8	–	–	–	–	–	–	–	1	–	9
		F	2	–	–	–	–	–	–	–	–	–	2
799	Other ill-defined and unknown causes of morbidity and mortality	M	8	5	1	2	10	17	109	82	53	34	321
		F	12	1	–	1	9	7	42	42	36	62	212
E812	Other motor vehicle traffic accident involv collision with anoth motor veh	M	1	–	–	–	9	7	22	11	7	3	60
		F	–	–	–	–	10	6	8	7	7	5	43
E813	Motor vehicle traffic accident involving collision with other vehicle	M	–	–	1	2	–	1	1	2	–	–	7
		F	–	–	–	–	–	–	–	–	–	1	1
E814	Motor vehicle traffic accident involving collision with pedestrian	M	–	–	1	4	1	3	8	10	5	1	33
		F	–	1	–	1	–	–	2	3	3	1	11
E815	Other motor vehicle traffic accident involving collision on the highway	M	–	–	–	–	2	–	14	2	–	–	18
		F	–	–	–	–	–	1	–	1	2	–	4
E816	Motor vehicle traffic accident due to loss of control, without collis on hwy	M	–	–	1	–	12	9	12	11	6	2	53
		F	–	1	–	–	4	1	5	1	–	–	12
E818	Other noncollision motor vehicle traffic accident	M	–	–	–	–	3	1	2	1	1	–	8
		F	–	–	–	–	–	–	–	–	–	–	–
E819	Motor vehicle traffic accident of unspecified nature	M	–	–	2	3	9	9	15	13	4	3	58
		F	–	–	–	–	5	2	11	7	6	6	37
E830	Accident to watercraft causing submersion	M	–	–	–	–	–	1	1	3	1	–	6
		F	–	–	–	–	–	–	–	2	–	–	2
E841	Accident to powered aircraft, other and unspecified	M	–	–	–	–	1	3	4	7	–	–	15
		F	–	–	–	–	1	1	–	1	–	–	3
E850	Accidental poisoning by analgesics, antipyretics, antirheumatics	M	–	–	–	–	2	5	48	33	–	–	88
		F	–	–	–	–	1	3	15	4	–	–	23
E852	Accidental poisoning by other sedatives and hypnotics	M	–	–	–	–	–	–	2	2	–	–	4
		F	–	–	–	–	–	–	–	1	–	–	1
E854	Accidental poisoning by other psychotropic agents	M	–	–	–	–	1	1	–	2	–	–	4
		F	–	–	–	–	–	–	1	–	–	–	1
E855	Accidental poison by oth drugs act on central and autonomic nervous syst	M	–	–	–	–	–	4	24	10	–	–	38
		F	–	–	–	–	–	–	6	1	–	–	7
E858	Accidental poisoning by other drugs	M	–	–	–	–	1	5	53	14	1	–	74
		F	–	–	–	–	–	–	22	7	1	–	30
E860	Accidental poisoning by alcohol, not elsewhere classified	M	–	–	–	–	–	–	6	5	3	–	14
		F	–	–	–	–	–	–	2	3	1	–	6
E878	Surg op and oth proc as caus of abnrm react or later compl, no men of mis	M	–	–	–	–	–	–	1	1	7	1	10
		F	–	–	–	–	–	–	–	4	4	1	9
E880	Fall on or from stairs or steps	M	–	–	–	–	–	–	2	5	6	4	17
		F	–	–	–	–	–	–	1	2	1	5	9
E883	Fall into hole or other opening in surface	M	–	–	–	–	–	2	1	2	2	–	7
		F	–	–	–	–	–	–	–	–	–	–	–
E884	Other fall from one level to another	M	–	–	–	–	–	2	7	7	2	2	20
		F	–	–	–	–	–	1	2	1	–	7	11
E885	Fall on same level from slipping, tripping or stumbling	M	–	–	–	–	–	–	–	–	2	3	5
		F	–	–	–	–	–	–	–	–	–	5	5
E887	Fracture, cause unspecified	M	–	–	–	–	–	–	–	1	8	56	65
		F	–	–	–	–	–	–	–	–	8	71	79
E888	Other and unspecified fall	M	–	1	–	–	–	–	4	10	24	36	75
		F	–	–	–	–	–	–	–	3	10	56	69
E890	Conflagration in private dwelling	M	–	–	–	1	–	–	5	5	3	2	16
		F	–	–	–	–	–	–	3	2	1	1	7

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1999

ICD9	Cause of Death	Gender	Age of Deceased (in Years)										Total
			<1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	
578	Gastrointestinal haemorrhage	M	–	–	–	–	–	–	1	5	19	31	56
		F	–	–	–	–	–	–	–	5	13	59	77
582	Chronic glomerulonephritis	M	–	–	–	–	–	–	–	–	1	–	1
		F	–	–	–	–	–	–	–	–	–	4	4
583	Nephritis and nephropathy, not specified as acute or chronic	M	–	–	–	–	–	–	1	–	3	2	6
		F	–	–	–	–	–	–	–	1	2	–	3
584	Acute renal failure	M	–	–	–	–	–	–	1	–	2	9	12
		F	–	–	–	–	–	–	–	–	5	10	15
585	Chronic renal failure	M	–	–	–	–	–	–	–	1	15	21	37
		F	–	–	–	–	–	–	1	2	5	26	34
586	Renal failure, unspecified	M	–	–	–	–	–	–	2	9	41	48	100
		F	–	–	–	–	–	–	1	3	21	58	83
590	Infections of kidney	M	–	–	–	–	–	–	–	1	–	3	4
		F	–	–	–	–	–	–	–	1	3	3	7
592	Calculus of kidney and ureter	M	–	–	–	–	–	–	1	–	–	–	1
		F	–	–	–	–	–	–	–	–	1	5	6
593	Other disorders of kidney and ureter	M	–	–	–	–	–	–	–	–	–	6	6
		F	–	–	–	–	–	–	–	–	1	–	1
599	Other disorders of urethra and urinary tract	M	–	–	–	–	–	–	–	2	7	22	31
		F	–	–	–	–	–	–	–	2	8	42	52
600	Hyperplasia of prostate	M	–	–	–	–	–	–	–	–	1	8	9
		F	–	–	–	–	–	–	–	–	–	–	–
682	Other cellulitis and abscess	M	–	–	–	–	–	–	–	–	4	1	5
		F	–	–	–	–	–	–	–	–	–	5	5
707	Chronic ulcer of skin	M	–	–	–	–	–	–	–	–	2	3	5
		F	–	–	–	–	–	–	–	–	3	12	15
710	Diffuse diseases of connective tissue	M	–	–	–	–	–	–	1	5	3	1	10
		F	–	–	–	–	–	–	3	7	12	4	26
714	Rheumatoid arthritis and other inflammatory polyarthropathies	M	–	–	–	–	–	–	–	1	5	3	9
		F	–	–	–	–	–	–	–	1	9	5	15
715	Osteoarthrosis and allied disorders	M	–	–	–	–	–	–	–	–	1	–	1
		F	–	–	–	–	–	–	–	1	–	7	8
716	Other and unspecified arthropathies	M	–	–	–	–	–	–	–	–	–	1	1
		F	–	–	–	–	–	–	–	–	–	5	5
728	Disorders of muscle, ligament and fascia	M	–	–	–	–	–	–	–	–	1	1	2
		F	–	–	–	–	–	–	–	–	2	2	4
733	Other disorders of bone and cartilage	M	–	–	–	–	–	–	–	–	1	2	3
		F	–	–	–	–	–	–	–	1	7	15	23
742	Other congenital anomalies of nervous system	M	1	1	–	–	–	–	1	–	1	1	5
		F	2	1	–	–	–	–	–	–	–	1	4
745	Bulbus cordis anomalies and anomalies of cardiac septal closure	M	–	–	–	–	–	–	2	2	3	2	9
		F	1	–	–	–	–	–	2	–	1	1	5
746	Other congenital anomalies of heart	M	3	1	–	1	–	1	2	2	1	–	11
		F	3	–	–	1	–	2	–	–	–	–	6
747	Other congenital anomalies of circulatory system	M	2	–	–	–	–	–	1	4	1	–	8
		F	1	–	–	–	1	–	–	–	2	1	5
748	Congenital anomalies of respiratory system	M	3	–	–	–	–	–	–	–	–	–	3
		F	4	–	–	–	–	–	–	–	–	–	4
753	Congenital anomalies of urinary system	M	–	–	–	–	–	–	–	–	2	1	3
		F	–	–	–	–	–	–	–	1	1	1	3
758	Chromosomal anomalies	M	–	–	–	–	–	–	1	–	–	–	1
		F	4	–	–	–	1	–	1	2	1	–	9
761	Fetus or newborn affected by maternal complications of pregnancy	M	5	–	–	–	–	–	–	–	–	–	5
		F	3	–	–	–	–	–	–	–	–	–	3
762	Fetus or newborn affect by complications of placenta, cord and membranes	M	7	–	–	–	–	–	–	–	–	–	7
		F	8	–	–	–	–	–	–	–	–	–	8
765	Disorders relating to short gestation	M	5	–	–	–	–	–	–	–	–	–	5
		F	1	–	–	–	–	–	–	–	–	–	1
767	Birth trauma	M	1	1	–	–	–	1	–	–	–	–	3
		F	2	–	–	–	–	–	–	–	–	–	2

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1999

ICD9	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
769	Respiratory distress syndrome (RDS)	M	7	–	–	–	–	–	–	–	–	–	7
		F	3	–	–	–	–	–	–	–	–	–	3
770	Other respiratory conditions of fetus and newborn	M	10	–	–	–	–	–	–	–	–	–	10
		F	5	–	–	–	–	–	–	–	–	–	5
771	Infections specific to the perinatal period	M	3	–	–	–	–	–	–	–	–	–	3
		F	2	–	–	–	–	–	–	–	–	–	2
780	General symptoms	M	–	–	–	–	–	–	–	–	1	1	2
		F	–	–	–	–	–	2	–	1	–	2	5
797	Senility without mention of psychosis (old age)	M	–	–	–	–	–	–	–	–	–	11	11
		F	–	–	–	–	–	–	–	–	1	31	32
798	Sudden death, cause unknown	M	8	–	–	–	–	–	–	–	1	–	9
		F	2	–	–	–	–	–	–	–	–	–	2
799	Other ill-defined and unknown causes of morbidity and mortality	M	8	5	1	2	10	17	109	82	53	34	321
		F	12	1	–	1	9	7	42	42	36	62	212
E812	Other motor vehicle traffic accident involv collision with anoth motor veh	M	1	–	–	–	9	7	22	11	7	3	60
		F	–	–	–	–	10	6	8	7	7	5	43
E813	Motor vehicle traffic accident involving collision with other vehicle	M	–	–	1	2	–	1	1	2	–	–	7
		F	–	–	–	–	–	–	–	–	–	1	1
E814	Motor vehicle traffic accident involving collision with pedestrian	M	–	–	1	4	1	3	8	10	5	1	33
		F	–	1	–	1	–	–	2	3	3	1	11
E815	Other motor vehicle traffic accident involving collision on the highway	M	–	–	–	–	2	–	14	2	–	–	18
		F	–	–	–	–	–	1	–	1	2	–	4
E816	Motor vehicle traffic accident due to loss of control, without collis on hwy	M	–	–	1	–	12	9	12	11	6	2	53
		F	–	1	–	–	4	1	5	1	–	–	12
E818	Other noncollision motor vehicle traffic accident	M	–	–	–	–	3	1	2	1	1	–	8
		F	–	–	–	–	–	–	–	–	–	–	–
E819	Motor vehicle traffic accident of unspecified nature	M	–	–	2	3	9	9	15	13	4	3	58
		F	–	–	–	–	5	2	11	7	6	6	37
E830	Accident to watercraft causing submersion	M	–	–	–	–	–	1	1	3	1	–	6
		F	–	–	–	–	–	–	–	2	–	–	2
E841	Accident to powered aircraft, other and unspecified	M	–	–	–	–	1	3	4	7	–	–	15
		F	–	–	–	–	1	1	–	1	–	–	3
E850	Accidental poisoning by analgesics, antipyretics, antirheumatics	M	–	–	–	–	2	5	48	33	–	–	88
		F	–	–	–	–	1	3	15	4	–	–	23
E852	Accidental poisoning by other sedatives and hypnotics	M	–	–	–	–	–	–	2	2	–	–	4
		F	–	–	–	–	–	–	–	1	–	–	1
E854	Accidental poisoning by other psychotropic agents	M	–	–	–	–	1	1	–	2	–	–	4
		F	–	–	–	–	–	–	1	–	–	–	1
E855	Accidental poison by oth drugs act on central and autonomic nervous syst	M	–	–	–	–	–	4	24	10	–	–	38
		F	–	–	–	–	–	–	6	1	–	–	7
E858	Accidental poisoning by other drugs	M	–	–	–	–	1	5	53	14	1	–	74
		F	–	–	–	–	–	–	22	7	1	–	30
E860	Accidental poisoning by alcohol, not elsewhere classified	M	–	–	–	–	–	–	6	5	3	–	14
		F	–	–	–	–	–	–	2	3	1	–	6
E878	Surg op and oth proc as caus of abnrm react or later compl, no men of mis	M	–	–	–	–	–	–	1	1	7	1	10
		F	–	–	–	–	–	–	–	4	4	1	9
E880	Fall on or from stairs or steps	M	–	–	–	–	–	–	2	5	6	4	17
		F	–	–	–	–	–	–	1	2	1	5	9
E883	Fall into hole or other opening in surface	M	–	–	–	–	–	2	1	2	2	–	7
		F	–	–	–	–	–	–	–	–	–	–	–
E884	Other fall from one level to another	M	–	–	–	–	–	2	7	7	2	2	20
		F	–	–	–	–	–	1	2	1	–	7	11
E885	Fall on same level from slipping, tripping or stumbling	M	–	–	–	–	–	–	–	–	2	3	5
		F	–	–	–	–	–	–	–	–	–	5	5
E887	Fracture, cause unspecified	M	–	–	–	–	–	–	–	1	8	56	65
		F	–	–	–	–	–	–	–	–	8	71	79
E888	Other and unspecified fall	M	–	1	–	–	–	–	4	10	24	36	75
		F	–	–	–	–	–	–	–	3	10	56	69
E890	Conflagration in private dwelling	M	–	–	–	1	–	–	5	5	3	2	16
		F	–	–	–	–	–	–	3	2	1	1	7

Note: Only causes with five or more deaths are shown.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 1999

ICD9 Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
E901 Accident caused by excessive cold	**M**	–	–	–	–	–	1	1	–	–	1	3
	F	–	–	–	–	–	–	1	1	–	–	2
E910 Accidental drowning and submersion	M	–	–	–	2	2	3	9	5	5	1	27
	F	–	2	–	–	1	–	4	–	1	1	9
E911 Inhalation and ingest of food causing	**M**	1	–	–	–	–	–	1	3	1	3	9
obstruct of resp tract or suffocation	**F**	–	1	–	–	–	–	1	–	–	1	3
E912 Inhalation and ingest of oth objt caus	M	–	–	–	–	–	1	2	–	–	2	5
obstruct of resp tract or suffoc	F	–	–	–	–	–	–	–	1	1	2	4
E913 Accidental mechanical suffocation	**M**	–	–	–	2	1	–	2	2	–	–	7
	F	–	–	–	–	–	–	–	1	–	–	1
E916 Struck accidentally by falling object	M	–	–	–	–	–	–	4	4	1	–	9
	F	–	–	–	–	–	–	–	–	–	–	–
E919 Accidents caused by machinery	**M**	–	–	1	–	–	–	2	5	–	–	8
	F	–	–	–	–	–	–	–	–	–	–	–
E929 Late effects of accidental injury	M	–	–	–	–	–	–	1	6	2	1	10
	F	–	–	–	–	–	–	2	–	2	6	10
E934 Agents primarily affect blood causing	**M**	–	–	–	–	–	–	–	1	2	3	6
adverse effect in therapeutic use	**F**	–	–	–	–	–	–	–	–	2	2	4
E950 Suicide and selfinflicted poisoning by	M	–	–	–	–	–	2	20	16	3	2	43
solid or liquid substances	F	–	–	–	–	–	2	7	15	2	2	28
E952 Suicide and selfinflicted poisoning by	**M**	–	–	–	–	–	1	21	12	4	–	38
other gases and vapours	**F**	–	–	–	–	–	–	4	1	1	1	7
E953 Suicide and selfinflicted injury by	M	–	–	–	1	7	13	50	41	4	4	120
hanging, strangulation and suffocation	F	–	–	–	–	2	3	8	10	3	2	28
E954 Suicide and selfinflicted injury by	**M**	–	–	–	–	–	–	4	2	1	–	7
submersion (drowning)	**F**	–	–	–	–	–	–	–	1	2	–	3
E955 Suicide and selfinflicted injury by	M	–	–	–	1	3	6	30	33	21	5	99
firearms and explosives	F	–	–	–	–	1	–	1	1	–	1	4
E956 Suicide and selfinflicted injury by	**M**	–	–	–	–	–	–	3	3	–	–	6
cutting and piercing instruments	**F**	–	–	–	–	–	–	–	1	–	–	1
E957 Suicide and selfinflicted injury by	M	–	–	–	–	1	1	6	2	2	–	12
jumping from high place	F	–	–	–	–	–	–	3	5	1	2	11
E958 Suicide and selfinflicted injury by	**M**	–	–	–	–	–	1	8	3	–	–	12
other and unspecified means	**F**	–	–	–	–	–	–	–	–	–	–	–
E965 Assault by firearms and explosives	M	–	–	–	–	1	3	6	3	–	–	13
	F	–	–	–	–	2	–	1	2	–	–	5
E966 Assault by cutting and piercing	**M**	–	–	–	–	–	2	4	2	1	–	9
instrument	**F**	–	–	–	–	–	–	1	1	–	–	2
E968 Assault by other and unspecified	M	–	–	–	–	–	2	3	1	–	–	6
means	F	–	–	–	–	–	1	2	1	1	1	6
E980 Poison by solid or liquid subst, undeter	M	–	–	–	–	–	1	1	3	2	–	7
whether acc or purpos inflicted	F	–	–	–	–	–	–	3	6	–	–	9
TOTAL DEATHS	**M**	**87**	**16**	**17**	**27**	**87**	**135**	**929**	**2,498**	**5,593**	**5,306**	**14,695**
	F	**69**	**17**	**5**	**12**	**49**	**50**	**440**	**1,508**	**3,956**	**6,993**	**13,099**

Note: Causes with less than five deaths are not shown separately, but are included in the total.
Non-residents and unknown gender are excluded.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

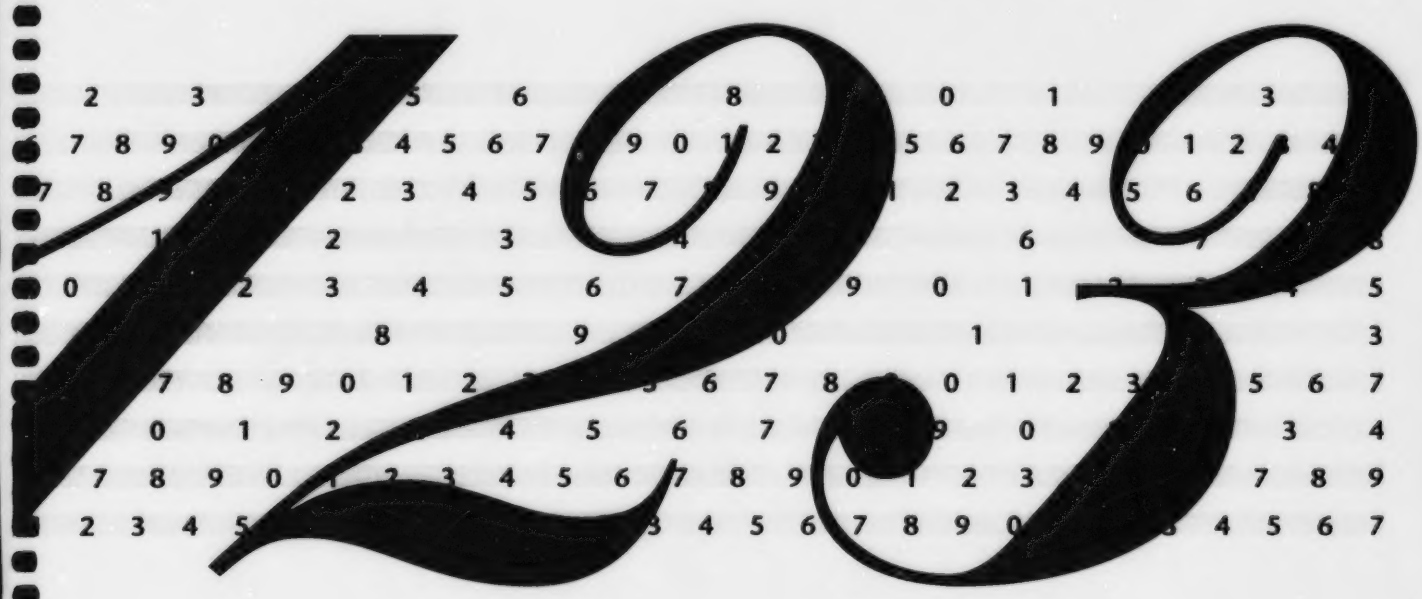
BRITISH COLUMBIA, 1999

ICD9 Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
E901 Accident caused by excessive cold	M	–	–	–	–	–	1	1	–	–	1	3
	F	–	–	–	–	–	–	1	1	–	–	2
E910 Accidental drowning and submersion	M	–	–	–	2	2	3	9	5	5	1	27
	F	–	2	–	–	1	–	4	–	1	1	9
E911 Inhalation and ingest of food causing	M	1	–	–	–	–	–	1	3	1	3	9
obstruct of resp tract or suffocation	F	–	1	–	–	–	–	1	–	–	1	3
E912 Inhalation and ingest of oth objt caus	M	–	–	–	–	–	1	2	–	–	2	5
obstruct of resp tract or suffoc	F	–	–	–	–	–	–	–	1	1	2	4
E913 Accidental mechanical suffocation	M	–	–	–	2	1	–	2	2	–	–	7
	F	–	–	–	–	–	–	–	1	–	–	1
E916 Struck accidentally by falling object	M	–	–	–	–	–	–	4	4	1	–	9
	F	–	–	–	–	–	–	–	–	–	–	–
E919 Accidents caused by machinery	M	–	–	1	–	–	–	2	5	–	–	8
	F	–	–	–	–	–	–	–	–	–	–	–
E929 Late effects of accidental injury	M	–	–	–	–	–	–	1	6	2	1	10
	F	–	–	–	–	–	–	2	–	2	6	10
E934 Agents primarily affect blood causing	M	–	–	–	–	–	–	–	1	2	3	6
adverse effect in therapeutic use	F	–	–	–	–	–	–	–	–	2	2	4
E950 Suicide and selfinflicted poisoning by	M	–	–	–	–	–	2	20	16	3	2	43
solid or liquid substances	F	–	–	–	–	–	2	7	15	2	2	28
E952 Suicide and selfinflicted poisoning by	M	–	–	–	–	–	1	21	12	4	–	38
other gases and vapours	F	–	–	–	–	–	–	4	1	1	1	7
E953 Suicide and selfinflicted injury by	M	–	–	–	1	7	13	50	41	4	4	120
hanging, strangulation and suffocation	F	–	–	–	–	2	3	8	10	3	2	28
E954 Suicide and selfinflicted injury by	M	–	–	–	–	–	–	4	2	1	–	7
submersion (drowning)	F	–	–	–	–	–	–	–	1	2	–	3
E955 Suicide and selfinflicted injury by	M	–	–	–	1	3	6	30	33	21	5	99
firearms and explosives	F	–	–	–	–	1	–	1	1	–	1	4
E956 Suicide and selfinflicted injury by	M	–	–	–	–	–	–	3	3	–	–	6
cutting and piercing instruments	F	–	–	–	–	–	–	–	1	–	–	1
E957 Suicide and selfinflicted injury by	M	–	–	–	–	1	1	6	2	2	–	12
jumping from high place	F	–	–	–	–	–	–	3	5	1	2	11
E958 Suicide and selfinflicted injury by	M	–	–	–	–	–	1	8	3	–	–	12
other and unspecified means	F	–	–	–	–	–	–	–	–	–	–	–
E965 Assault by firearms and explosives	M	–	–	–	–	1	3	6	3	–	–	13
	F	–	–	–	–	2	–	1	2	–	–	5
E966 Assault by cutting and piercing	M	–	–	–	–	–	2	4	2	1	–	9
instrument	F	–	–	–	–	–	–	1	1	–	–	2
E968 Assault by other and unspecified	M	–	–	–	–	–	2	3	1	–	–	6
means	F	–	–	–	–	–	1	2	1	1	1	6
E980 Poison by solid or liquid subst, undeter	M	–	–	–	–	–	1	1	3	2	–	7
whether acc or purpos inflicted	F	–	–	–	–	–	–	3	6	–	–	9
TOTAL DEATHS	M	87	16	17	27	87	135	929	2,498	5,593	5,306	14,695
	F	69	17	5	12	49	50	440	1,508	3,956	6,993	13,099

Note: Causes with less than five deaths are not shown separately, but are included in the total.
Non-residents and unknown gender are excluded.

Appendix 3

Selected Health Status Indicators by Health Region and Local Health Area, British Columbia, 1995–1999



Preamble to Appendix 3

This appendix consists of four tables:

Table A Summary Statistics by Local Health Area, British Columbia, 1995–1999

Table B Mortality in British Columbia by Local Health Area, British Columbia, 1995–1999

Table C Summary Statistics by Health Region, British Columbia, 1995–1999

Table D Mortality in British Columbia by Health Region, British Columbia, 1995–1999

Assignment of events to LHAs or HRs was based upon the usual residence of the mother for live births and stillbirths, and the usual residence of the decedent for deaths. Tables A and C provide population estimates for 1999, and counts and rates for the five-year period 1995–1999 for live births, stillbirths, deaths, infant deaths, low birth weight live births, cesarean live birth deliveries, pre-term live births, live births to teenage mothers, and live births to elderly gravida. Due to space limitations, the footnotes for Tables A and C are shown on the reverse side under Tables B and D.

Tables B and D provide the Standardized Morality Ratios (SMR) with statistical significance, number of deaths (in the column labeled Death), trends in Age Standardized Mortality Rates (in the column labeled TR) based on three-year moving averages from 1986 to 1999, Potential Years of Life Lost Index (PYLLI) with statistical significance, and the number of deaths under age 75 (in the column labeled D <75). Statistical significance is indicated by a box around the statistic. These statistics are provided for:

Category	Cause of Death	ICD9 Codes
01	All causes of death	001–799, E800–E999
02	Cancers (all cancer sites)	140–208
03	Lung cancer	162
04	Endocrine, nutritional, and metabolic diseases	240–279
05	Diabetes	250
06	Circulatory system diseases	390–459
07	Ischaemic heart disease	410–414
08	Cerebrovascular disease/stroke	430–434, 436–438
09	Diseases of arteries, arterioles and capillaries	440–448
10	Respiratory system diseases	460–519
11	Pneumonia and influenza	480–487
12	Chronic lung disease	491–492, 496
13	Digestive system diseases	520–579
14	Motor vehicle traffic accidents	E810–E819
15	Accidental falls	E880–E888
16	Suicide	E950–E959
17	Alcohol-related deaths	see Glossary
18	Medically treatable diseases	see Glossary
19	Drug-induced deaths	see Glossary

For Total Vancouver, please refer to HR 16 Vancouver in Tables C and D.

TABLE A

SUMMARY STATISTICS BY LOCAL HEALTH AREA

BRITISH COLUMBIA 1995–1999

Local Health Area	1999 Population	Live Birth		Stillbirth		Death		Infant Death		Low Birth Wt. Live Birth		Cesarean		Pre–term		Teenage Mother	
		Total	Rate	Total	Rate[2]	Total	Rate	Total	Rate[1]	Total	Rate[1]	Total	Rate[1]	Total	Rate[1]	Total	Rate[1]
001 Fernie	16538	735	9.21	2	2.71	363	4.55	4	5.44	28	38.10	141	191.84	16	21.77	67	91.16
002 Cranbrook	26248	1321	10.31	8	6.02	805	6.28	4	3.03	51	38.61	197	149.13	57	43.15	114	86.30
003 Kimberley	8947	338	7.52	1	2.95	380	8.45	1	2.96	10	29.59	67	198.22	12	35.50	26	76.92
004 Windermere	9430	411	9.36	4	9.64	205	4.67	4	9.73	17	41.36	67	163.02	18	43.80	22	53.53
005 Creston	13152	634	9.75	5	7.82	643	9.89	5	7.89	23	36.28	107	168.77	33	52.05	72	113.56
006/007 Kootenay Lake/Nelson	29168	1320	9.17	15	11.24	1034	7.18	6	4.55	57	43.18	182	137.88	57	43.18	78	59.09
009 Castlegar	13825	645	9.46	4	6.16	515	7.56	7	10.85	45	69.77	140	217.05	56	86.82	43	66.67
010 Arrow Lakes	5385	275	10.38	–	–	245	9.25	1	3.64	13	47.27	41	149.09	13	47.27	24	87.27
011 Trail	20939	895	8.49	5	5.56	1061	10.06	4	4.47	41	45.81	199	222.35	44	49.16	44	49.16
012/013 Grand Forks/Kettle Valley	13197	496	7.61	4	8.00	577	8.86	3	6.05	24	48.39	111	223.79	29	58.47	38	76.61
014 Southern Okanagan	18698	787	8.59	5	6.31	1117	12.20	4	5.08	60	76.24	157	199.49	60	76.24	37	47.01
015 Penticton	40315	1820	9.11	10	5.46	2207	11.04	7	3.85	104	57.14	332	182.42	126	69.23	162	89.01
016 Keremeos	4719	237	10.26	2	8.37	255	11.04	–	–	10	42.19	43	181.43	11	46.41	24	101.27
017 Princeton	5229	202	7.87	2	9.80	234	9.12	4	19.80	11	54.46	39	193.07	14	69.31	22	108.91
018 Golden	7776	405	10.59	1	2.46	182	4.76	1	2.47	12	29.63	95	234.57	16	39.51	34	83.95
019 Revelstoke	8738	473	10.65	–	–	302	6.80	3	6.34	24	50.74	123	260.04	26	54.97	32	67.65
020 Salmon Arm	33133	1291	8.17	7	5.39	1309	8.28	5	3.87	64	49.57	386	298.99	63	48.80	82	63.52
021 Armstrong–Spallumcheen	9904	453	9.35	2	4.40	377	7.78	2	4.42	25	55.19	102	225.17	29	64.02	32	70.64
022 Vernon	58982	2852	9.82	20	6.96	2527	8.70	9	3.16	118	41.37	665	233.17	144	50.49	207	72.58
023 Central Okanagan	150750	7213	9.93	35	4.83	5553	7.64	34	4.71	369	51.16	1411	195.62	454	62.94	402	55.73
024 Kamloops	105592	5260	10.27	39	7.36	3359	6.56	23	4.37	280	53.23	1293	245.82	366	69.58	366	69.58
025 100 Mile House	16437	744	9.39	7	9.32	519	6.55	3	4.03	35	47.04	142	190.86	33	44.35	55	73.92
026 North Thompson	5324	293	11.27	3	10.14	125	4.81	2	6.83	4	13.65	54	184.30	6	20.48	32	109.22
027 Cariboo–Chilcotin	29364	1919	13.37	14	7.24	732	5.10	9	4.69	104	54.19	553	288.17	116	60.45	190	99.01
028 Quesnel	27476	1681	12.51	5	2.97	737	5.49	11	6.54	81	48.19	424	252.23	99	58.89	174	103.51
029 Lillooet	4901	339	13.76	2	5.87	170	6.90	1	2.95	11	32.45	83	244.84	16	47.20	37	109.14
030 South Cariboo	7873	412	10.61	3	7.23	282	7.26	4	9.71	29	70.39	85	206.31	29	70.39	56	135.92
031 Merritt	12200	721	12.09	5	6.89	415	6.96	4	5.55	45	62.41	171	237.17	64	88.77	79	109.57
032 Hope	8460	434	10.21	7	15.87	442	10.40	4	9.22	15	34.56	80	184.33	20	46.08	59	135.94
033 Chilliwack	71543	4396	12.64	25	5.65	2845	8.18	27	6.14	232	52.78	974	221.57	256	58.23	377	85.76
034 Abbotsford	115035	8186	14.63	52	6.31	3956	7.07	30	3.66	363	44.34	1613	197.04	446	54.48	417	50.94
035 Langley	113238	6470	11.79	53	8.13	3485	6.35	25	3.86	283	43.74	1259	194.59	350	54.10	210	32.46
036 Surrey	353704	25133	14.72	180	7.11	10158	5.95	120	4.77	1495	59.48	5554	220.98	1771	70.47	917	36.49
037 Delta	101658	5620	11.19	38	6.72	2585	5.15	26	4.63	295	52.49	1173	208.72	373	66.37	141	25.09
038 Richmond	164009	8287	10.50	57	6.83	3876	4.91	38	4.59	417	50.32	1788	215.76	533	64.32	145	17.50
040 New Westminster	54177	3304	12.64	24	7.21	2525	9.66	18	5.45	190	57.51	584	176.76	232	70.22	154	46.61
041 Burnaby	190272	10157	10.82	63	6.16	6758	7.20	45	4.43	570	56.12	1686	165.99	695	68.43	326	32.10
042 Maple Ridge	76911	4675	12.62	31	6.59	2279	6.15	24	5.13	227	48.56	1009	215.83	291	62.25	198	42.35
043 Coquitlam	187908	11295	12.46	76	6.68	4180	4.61	41	3.63	584	51.70	2031	179.81	753	66.67	280	24.79
044 North Vancouver	130136	7065	11.00	40	5.63	3893	6.06	21	2.97	274	38.78	1375	194.62	399	56.48	90	12.74
045 West Vancouver–Bowen Is.	49372	1566	6.38	12	7.60	2343	9.54	3	1.92	76	48.53	313	199.87	94	60.03	14	8.94
046 Sunshine Coast	27248	1224	9.30	9	7.30	1142	8.68	4	3.27	58	47.39	242	197.71	75	61.27	54	44.12
047 Powell River	20767	943	9.20	5	5.27	840	8.19	8	8.48	36	38.18	211	223.75	39	41.36	97	102.86
048 Howe Sound	31010	1962	13.67	22	11.09	526	3.67	5	2.55	98	49.95	353	179.92	139	70.85	85	43.32
049 Bella Coola Valley	3499	256	15.42	2	7.75	91	5.48	3	11.72	10	39.06	50	195.31	17	66.41	33	128.91
050 Queen Charlotte	5808	384	13.41	2	5.18	142	4.96	3	7.81	20	52.08	65	169.27	32	83.33	30	78.13
051 Snow Country	821	72	15.08	–	–	14	2.93	1	13.89	5	69.44	19	263.89	4	55.56	5	69.44
052 Prince Rupert	18746	1393	14.51	8	5.71	462	4.81	7	5.03	64	45.94	237	170.14	93	66.76	159	114.14
053 Upper Skeena	6073	420	14.35	2	4.74	119	4.06	4	9.52	23	54.76	61	145.24	34	80.95	69	164.29
054 Smithers	18766	1395	15.28	20	14.13	342	3.75	8	5.73	68	48.75	307	220.07	86	61.65	106	75.99
055/093 Burns Lake/Eutsuk	7934	538	13.89	3	5.55	232	5.99	7	13.01	21	39.03	100	185.87	32	59.48	49	91.08
056 Nechako	18469	1399	15.51	6	4.27	424	4.70	7	5.00	55	39.31	254	181.56	77	55.04	169	120.80
057 Prince George	107027	6523	12.41	68	10.32	2277	4.33	40	6.13	343	52.58	1431	219.38	423	64.85	504	77.27
059 Peace River South	29144	1842	12.59	7	3.79	722	4.93	5	2.71	63	34.20	331	179.70	89	48.32	194	105.32
060 Peace River North	30725	2340	15.90	15	6.37	551	3.74	5	2.14	92	39.32	443	189.32	125	53.42	183	78.21
061 Greater Victoria	205402	9376	9.09	74	7.83	11275	10.93	46	4.91	490	52.26	2351	250.75	653	69.65	442	47.14
062 Sooke	54071	3080	11.69	4	1.30	1383	5.25	14	4.55	154	50.00	744	241.56	203	65.91	131	42.53
063 Saanich	60311	2196	7.34	5	2.27	2689	8.99	7	3.19	75	34.15	521	237.25	126	57.38	96	43.72
064 Gulf Islands	14584	507	7.23	3	5.88	650	9.26	–	–	9	17.75	98	193.29	11	21.70	22	43.39
065 Cowichan	53633	2685	10.32	19	7.03	1876	7.21	15	5.59	133	49.53	544	202.61	208	77.47	228	84.92
066 Lake Cowichan	6602	331	10.17	2	6.01	160	4.92	1	3.02	16	48.34	76	229.61	19	57.40	23	69.49
067 Ladysmith	16167	865	10.69	4	4.60	856	10.58	–	–	36	41.62	178	205.78	48	55.49	93	107.51
068 Nanaimo	93799	4540	9.95	29	6.35	3413	7.48	21	4.63	209	46.04	863	190.09	293	64.54	328	72.25
069 Qualicum	40004	1401	7.31	4	2.85	1970	10.28	6	4.28	62	44.25	306	218.42	94	67.09	65	46.40
070 Alberni	33284	1812	10.94	13	7.12	1244	7.51	12	6.62	73	40.29	373	205.85	120	66.23	208	114.79
071 Courtenay	59746	2862	9.86	26	9.00	2098	7.23	17	5.94	144	50.31	576	201.26	178	62.19	204	71.28
072/084 Campbell River/V.I. West	45255	2449	10.96	17	6.89	1185	5.31	13	5.31	109	44.51	552	225.40	138	56.35	194	79.22
075 Mission	37326	2319	12.68	16	6.85	1196	6.54	8	3.45	123	53.04	463	199.66	144	62.10	178	76.76
076 Agassiz–Harrison	8147	400	10.36	–	–	287	7.43	3	7.50	12	30.00	84	210.00	17	42.50	52	130.00
077 Summerland	11414	445	7.79	3	6.70	732	12.82	2	4.49	21	47.19	72	161.80	27	60.67	14	31.46
078 Enderby	7754	410	11.03	6	14.42	330	8.88	4	9.76	15	36.59	108	263.41	25	60.98	28	68.29
080 Kitimat	13042	750	11.52	5	6.62	242	3.72	4	5.33	32	42.67	214	285.33	56	74.67	69	92.00
081 Fort Nelson	6590	568	17.78	4	6.99	97	3.04	4	7.04	22	38.73	137	241.20	30	52.82	51	89.79
083 Central Coast	2043	139	14.22	–	–	59	6.04	2	14.39	7	50.36	26	187.05	23	165.47	15	107.91
085 Vancouver Island North	15501	1060	13.67	6	5.63	295	3.80	10	9.43	54	50.94	214	201.89	94	88.68	155	146.23
087/094 Stikine/Telegraph Creek	1995	115	11.82	5	41.67	43	4.35	–	–	9	78.26	13	113.04	11	95.65	13	113.04
088 Terrace	23970	1632	13.85	10	6.09	526	4.46	7	4.29	73	44.73	310	189.95	108	66.18	153	93.75
092 Nishga	2323	163	15.11	–	–	51	4.73	1	6.13	9	55.21	30	184.05	20	122.70	22	134.97
161 Vancouver City Centre	94827	2996	6.93	29	9.59	3577	8.27	6	2.00	154	51.40	672	224.30	195	65.09	17	5.67
162 Vancouver Downtown E. Side	52826	2676	10.45	22	8.15	3027	11.82	15	5.61	151	56.43	509	190.21	213	79.60	119	44.47
163 Vancouver North East	94659	6137	13.29	48	7.76	2732	5.92	36	5.87	378	61.59	1246	203.03	446	72.67	177	28.84
164 Vancouver West Side	122678	4924	8.17	32	6.46	4087	6.79	10	2.03	236	47.93	1017	206.54	321	65.19	24	4.87
165 Vancouver Midtown	85725	5853	13.91	43	7.29	2642	6.28	46	7.86	366	62.53	1281	218.86	474	80.98	141	24.09
166 Vancouver South	118875	7080	11.95	57	7.99	4111	6.94	32	4.52	392	55.37	1476	208.47	490	69.21	176	24.86
N.S.	–	229		26		58		–		17		38		17		18	
PROVINCIAL TOTAL	**4029253**	**221842**	**11.27**	**1549**	**6.94**	**136466**	**6.94**	**1036**	**4.67**	**11283**	**50.82**	**48078**	**207.86**	**14391**	**64.52**	**11986**	**53.93**

Note: Please see the reverse side of this sheet for footnotes.

TABLE A

…TICS BY LOCAL HEALTH AREA

…COLUMBIA 1995–1999

…ath Rate	Infant Death Total	Infant Death Rate[1]	Low Birth Wt. Live Birth Total	Low Birth Wt. Live Birth Rate[1]	Cesarean Total	Cesarean Rate[1]	Pre-term Total	Pre-term Rate[1]	Teenage Mother Total	Teenage Mother Rate[1]	Elderly Gravida Total	Elderly Gravida Rate[1]
4.55	4	5.44	28	38.10	141	191.84	16	21.77	67	91.16	73	99.32
6.28	4	3.03	51	38.61	197	149.13	57	43.15	114	86.30	131	99.17
8.45	1	2.96	10	29.59	67	198.22	12	35.50	26	76.92	40	118.34
4.67	4	9.73	17	41.36	67	163.02	18	43.80	22	53.53	54	131.39
9.89	5	7.89	23	36.28	107	168.77	33	52.05	72	113.56	78	123.03
7.18	6	4.55	57	43.18	182	137.88	57	43.18	78	59.09	223	168.94
7.56	7	10.85	45	69.77	140	217.05	56	86.82	43	66.67	55	85.27
9.25	1	3.64	13	47.27	41	149.09	13	47.27	24	87.27	35	127.27
10.06	4	4.47	41	45.81	199	222.35	44	49.16	44	49.16	111	124.02
8.86	3	6.05	24	48.39	111	223.79	29	58.47	38	76.61	66	133.06
12.20	4	5.08	60	76.24	157	199.49	60	76.24	37	47.01	100	127.06
11.04	7	3.85	104	57.14	332	182.42	126	69.23	162	89.01	228	125.27
11.04	–	–	10	42.19	43	181.43	11	46.41	24	101.27	33	139.24
9.12	4	19.80	11	54.46	39	193.07	14	69.31	22	108.91	22	108.91
4.76	1	2.47	12	29.63	95	234.57	16	39.51	34	83.95	49	120.99
6.80	3	6.34	24	50.74	123	260.04	26	54.97	32	67.65	73	154.33
8.28	5	3.87	64	49.57	386	298.99	63	48.80	82	63.52	170	131.68
7.78	2	4.42	25	55.19	102	225.17	29	64.02	32	70.64	50	110.38
8.70	9	3.16	118	41.37	665	233.17	144	50.49	207	72.58	342	119.92
7.64	34	4.71	369	51.16	1411	195.62	454	62.94	402	55.73	1038	143.91
6.56	23	4.37	280	53.23	1293	245.82	366	69.58	366	69.58	562	106.84
6.55	3	4.03	35	47.04	142	190.86	33	44.35	55	73.92	97	130.38
4.81	2	6.83	4	13.65	54	184.30	6	20.48	32	109.22	31	105.80
5.10	9	4.69	104	54.19	553	288.17	116	60.45	190	99.01	185	96.40
5.49	11	6.54	81	48.19	424	252.23	99	58.89	174	103.51	123	73.17
6.90	1	2.95	11	32.45	83	244.84	16	47.20	37	109.14	30	88.50
7.26	1	9.71	29	70.39	85	206.31	29	70.39	56	135.92	40	97.09
6.96	4	5.55	45	62.41	171	237.17	64	88.77	79	109.57	67	92.93
10.40	4	9.22	15	34.56	80	184.33	20	46.08	59	135.94	38	87.56
8.18	27	6.14	232	52.78	974	221.57	256	58.23	377	85.76	480	109.19
7.07	30	3.66	363	44.34	1613	197.04	446	54.48	417	50.94	780	95.28
6.35	25	3.86	283	43.74	1259	194.59	350	54.10	210	32.46	874	135.09
5.95	120	4.77	1495	59.48	5554	220.98	1771	70.47	917	36.49	3344	133.05
5.15	26	4.63	295	52.49	1173	208.72	373	66.37	141	25.09	1076	191.46
4.91	38	4.59	417	50.32	1788	215.76	533	64.32	145	17.50	1898	229.03
9.66	18	5.45	190	57.51	584	176.76	232	70.22	154	46.61	633	191.59
7.20	45	4.43	570	56.12	1686	165.99	695	68.43	326	32.10	2000	196.91
6.15	24	5.13	227	48.56	1009	215.83	291	62.25	198	42.35	714	152.73
4.61	41	3.63	584	51.70	2031	179.81	753	66.67	280	24.79	2162	191.41
6.06	21	2.97	274	38.78	1375	194.62	399	56.48	90	12.74	2019	285.77
9.54	3	1.92	76	48.53	313	199.87	94	60.03	14	8.94	584	372.92
8.68	4	3.27	58	47.39	242	197.71	75	61.27	54	44.12	248	202.61
8.19	8	8.48	36	38.18	211	223.75	39	41.36	97	102.86	104	110.29
3.67	5	2.55	98	49.95	353	179.92	139	70.85	85	43.32	348	177.37
5.48	3	11.72	10	39.06	50	195.31	17	66.41	33	128.91	21	82.03
4.96	3	7.81	20	52.08	65	169.27	32	83.33	30	78.13	56	145.83
2.93	1	13.89	5	69.44	19	263.89	4	55.56	5	69.44	4	55.56
4.81	7	5.03	64	45.94	237	170.14	93	66.76	159	114.14	138	99.07
4.06	4	9.52	23	54.76	61	145.24	34	80.95	69	164.29	26	61.90
3.75	8	5.73	68	48.75	307	220.07	86	61.65	106	75.99	172	123.30
5.99	7	13.01	21	39.03	100	185.87	32	59.48	49	91.08	47	87.36
4.70	7	5.00	55	39.31	254	181.56	77	55.04	169	120.80	109	77.91
4.33	40	6.13	343	52.58	1431	219.38	423	64.85	504	77.27	577	88.46
4.93	5	2.71	63	34.20	331	179.70	89	48.32	194	105.32	164	89.03
3.74	5	2.14	92	39.32	443	189.32	125	53.42	183	78.21	241	102.99
10.93	46	4.91	490	52.26	2351	250.75	653	69.65	442	47.14	1654	176.41
5.25	14	4.55	154	50.00	744	241.56	203	65.91	131	42.53	418	135.71
8.99	7	3.19	75	34.15	521	237.25	126	57.38	96	43.72	471	214.48
9.26	–	–	9	17.75	98	193.29	11	21.70	22	43.39	97	191.32
7.21	15	5.59	133	49.53	544	202.61	208	77.47	228	84.92	369	137.43
4.92	1	3.02	16	48.34	76	229.61	19	57.40	23	69.49	46	138.97
10.58	–	–	36	41.62	178	205.78	48	55.49	93	107.51	89	102.89
7.48	21	4.63	209	46.04	863	190.09	293	64.54	328	72.25	587	129.30
10.28	6	4.28	62	44.25	306	218.42	94	67.09	65	46.40	255	182.01
7.51	12	6.62	73	40.29	373	205.85	120	66.23	208	114.79	201	110.93
7.23	17	5.94	144	50.31	576	201.26	178	62.19	204	71.28	414	144.65
5.31	13	5.31	109	44.51	552	225.40	138	56.35	194	79.22	293	119.64
6.54	8	3.45	123	53.04	463	199.66	144	62.10	178	76.76	289	124.62
7.43	3	7.50	12	30.00	84	210.00	17	42.50	52	130.00	47	117.50
12.82	2	4.49	21	47.19	72	161.80	27	60.67	14	31.46	81	182.02
8.88	4	9.76	15	36.59	108	263.41	25	60.98	28	68.29	62	151.22
3.72	4	5.33	32	42.67	214	285.33	56	74.67	69	92.00	90	120.00
3.04	4	7.04	22	38.73	137	241.20	30	52.82	51	89.79	38	66.90
6.04	2	14.39	7	50.36	26	187.05	23	165.47	15	107.91	12	86.33
3.80	10	9.43	54	50.94	214	201.89	94	88.68	155	146.23	100	94.34
4.35	–	–	9	78.26	13	113.04	11	95.65	13	113.04	10	86.96
4.46	7	4.29	73	44.73	310	189.95	108	66.18	153	93.75	143	87.62
4.73	1	6.13	9	55.21	30	184.05	20	122.70	22	134.97	19	116.56
8.27	6	2.00	154	51.40	672	224.30	195	65.09	17	5.67	724	241.66
11.82	15	5.61	151	56.43	509	190.21	213	79.60	119	44.47	548	204.78
5.92	36	5.87	378	61.59	1246	203.03	446	72.67	177	28.84	1180	192.28
6.79	10	2.03	236	47.93	1017	206.54	321	65.19	24	4.87	1564	317.63
6.28	46	7.86	366	62.53	1281	218.86	474	80.98	141	24.09	1424	243.29
6.94	32	4.52	392	55.37	1476	208.47	490	69.21	176	24.86	1494	211.02
	–		17		38		17		18		22	
6.94	**1036**	**4.67**	**11263**	**50.82**	**46070**	**207.86**	**14301**	**64.52**	**11098**	**50.03**	**35739**	**161.25**

TABLE B

MORTALITY IN BRITISH COLUMBIA BY LOCAL HEALTH AREA

BRITISH COLUMBIA 1995–1999

01 All Causes of Death					02 All Cancer Sites					03 Lung Cancer				
SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75
0.94	363	↘	0.76	187	1.07	117		0.94	76	1.19	35	↗	1.01	26
1.06	805		0.86	353	1.02	217	↗	0.84	127	1.32	76	↗	1.06	46
0.96	380	↘	0.88	153	0.85	92	↘	0.81	56	0.87	25		0.74	14
0.80	205		0.86	109	0.81	61	↘	0.90	43	0.68	14	↘	0.59	9
0.92	643	↘	0.99	238	0.93	175		0.98	95	0.93	47		0.82	30
1.00	1034		1.21	450	1.00	280		1.05	160	0.97	72	↗	1.06	48
1.04	515		1.11	238	1.01	134		1.13	85	0.99	35		0.93	23
1.05	245		1.10	97	1.18	72	↗	1.28	42	0.99	16		1.09	11
1.12	1061		1.13	417	1.09	272		1.31	166	0.97	64	↘	1.43	47
1.03	577	↘	1.21	267	1.03	163		1.10	105	0.74	32		0.95	24
0.97	1117	↘	1.05	426	0.96	310		1.13	168	1.02	90		1.31	57
0.95	2207		0.93	763	0.97	587		0.92	276	0.82	132		0.66	67
1.02	255		1.24	121	1.13	82		1.10	51	1.14	23		1.12	14
1.17	234		1.22	120	1.15	68		0.90	41	1.53	25	↗	1.74	21
1.07	182		1.05	107	1.02	49		1.09	37	1.24	16		0.97	12
1.28	302	↗	1.12	136	1.01	67		0.96	42	1.07	19	↘	1.20	14
0.95	1309		0.99	575	0.97	381		1.04	224	1.04	111	↗	1.09	69
1.06	377		0.92	150	1.01	99	↗	0.84	55	0.87	23		0.53	13
1.03	2527		1.07	1012	1.00	669		1.10	372	1.05	187	↗	1.13	116
0.88	5553	↘	0.84	2075	0.91	1554	↘	0.91	823	0.87	397		0.93	239
1.10	3359		1.15	1734	1.00	868		0.93	540	1.10	258	↘	1.03	171
1.14	519	↘	1.33	323	0.94	133	↘	0.94	99	1.19	47		1.15	33
1.16	125		1.23	78	1.21	39		1.27	26	1.37	12		1.43	9
1.23	732		1.36	438	1.00	172		1.03	118	0.99	46		1.13	33
1.15	737	↘	1.16	420	1.16	214	↗	1.01	147	1.39	70		1.01	53
1.32	170	↘	1.40	89	1.16	41		0.98	22	0.64	6		0.43	5
1.12	282		1.53	166	0.97	72		1.09	47	1.56	32		1.63	25
1.27	415	↘	1.57	242	1.08	100		1.11	65	0.76	19	↘	0.72	12
1.32	442	↗	1.65	234	1.29	124	↗	1.25	81	1.37	36		1.61	27
1.06	2845	↘	1.12	1195	1.10	804		1.15	458	1.06	207	↘	1.23	128
0.96	3956		0.94	1485	0.92	993		1.00	527	0.94	266	↗	1.14	164
1.01	3485	↘	0.92	1525	1.12	1047		1.20	645	1.13	282		1.12	172
0.95	10156	↘	0.94	4511	0.96	2769	↘	0.98	1605	0.95	724	↘	1.02	479
0.91	2585	↘	0.73	1077	0.99	776	↘	0.96	458	0.91	191		0.86	123
0.81	3876	↘	0.65	1616	0.86	1127	↘	0.80	669	0.91	316		0.74	193
1.15	2525	↘	1.23	946	1.11	610	↘	1.05	301	1.23	174		1.27	97
0.98	6758	↘	0.85	2587	1.00	1804		0.99	984	0.99	471		1.01	274
1.12	2279	↘	0.97	1056	1.20	668		1.16	397	1.21	178		1.20	115
0.99	4180	↘	0.81	2077	1.05	1232	↘	1.10	831	1.11	344		1.00	223
0.97	3893	↘	0.76	1574	1.00	1109	↘	0.89	624	0.95	279		0.80	159
0.87	2343	↘	0.59	612	0.86	602	↘	0.72	273	0.60	110		0.38	54
1.03	1142	↘	1.08	519	1.09	339		1.09	205	1.13	96		1.07	59
1.03	840	↘	1.04	355	1.03	229	↘	1.09	140	1.04	62		0.98	39
1.10	526		0.96	324	1.06	140	↗	0.90	107	1.28	45	↗	1.07	35
1.41	91		1.72	66	1.07	20		1.13	14	0.59	3		0.15	1
1.35	142		1.44	97	1.12	33	↘	1.30	28	1.66	13		1.56	11
0.79	14	↘	1.62	14	1.10	5		1.74	5	0.86	1		1.52	1
1.24	462	↘	1.20	282	1.05	109	↘	0.97	78	1.30	36		1.72	27
1.12	119		1.33	73	0.65	19		0.52	12	0.76	6		0.39	5
1.00	342	↘	1.02	205	0.89	85	↘	0.99	61	0.87	22		0.82	17
1.21	232	↘	1.57	134	0.92	51		0.84	30	1.12	17		0.81	10
1.17	424		1.28	258	1.14	119		1.02	77	0.99	28		0.90	17
1.21	2277	↘	1.13	1417	1.17	638		1.12	475	1.23	180	↘	1.30	146
1.09	722		0.96	365	1.09	200	↗	0.91	126	1.13	55		0.89	38
1.02	551	↘	0.89	326	1.05	158		0.83	109	1.19	48		1.00	38
1.02	11275	↘	1.00	3311	1.04	2788		1.07	1273	1.01	686		1.07	376
1.02	1383	↘	0.87	670	1.18	454	↗	0.99	265	1.29	134		1.15	88
0.85	2689	↘	0.81	916	0.93	807	↘	0.97	404	0.83	194		0.72	100
0.86	650	↘	0.74	239	1.00	213		0.83	105	1.08	63	↗	0.93	32
0.98	1876	↘	0.98	827	0.96	511	↘	0.88	294	1.03	149		1.03	92
0.83	160	↘	0.85	92	0.83	47	↘	0.72	28	0.83	13		1.51	11
1.19	856		1.22	358	1.25	251		1.22	132	1.45	79		1.47	45
1.02	3413	↘	1.05	1535	1.01	928	↘	1.03	578	1.00	247	↘	1.03	165
0.95	1970	↘	1.01	816	0.99	591		1.07	332	0.88	145	↘	0.86	89
1.21	1244		1.39	640	1.15	336		1.11	212	1.16	91		1.11	60
1.06	2097		1.03	962	1.05	590	↘	0.94	354	0.93	142	↘	0.89	92
1.09	1185	↘	1.08	655	1.14	352		1.12	241	1.30	108		1.31	81
1.18	1196		1.12	559	1.15	318	↘	1.23	198	1.19	88		1.15	55
1.15	287		1.36	148	1.08	77	↗	1.37	55	1.08	21		1.63	16
1.04	732		0.94	229	1.09	205	↗	1.15	109	0.96	48	↗	1.00	24
1.08	330		1.52	156	1.07	89		0.88	45	1.15	26	↗	1.24	17
1.07	242	↘	1.03	170	1.08	75		1.00	56	1.26	24		1.03	18
1.34	97		1.38	77	1.22	23		0.68	17	2.50	12		1.69	9
1.59	59	↘	2.38	44	0.75	8	↘	1.17	5	0.35	1		0.80	1
1.21	295		1.36	219	1.06	75	↘	0.95	58	1.20	23		1.20	19
0.95	43		1.78	28	0.25	3		0.30	3	–	–		–	–
1.20	526	↘	1.19	327	1.09	137		1.11	104	1.27	43	↗	1.17	33
1.33	51		2.04	39	0.94	10		1.23	7	0.35	1		0.10	1
1.15	3577	↘	1.49	1677	1.09	828		1.12	460	1.14	219		1.28	135
1.52	3027		3.05	2030	1.18	611		1.55	401	1.37	188	↘	1.58	121
0.89	2732	↘	0.90	1213	0.92	763	↘	0.89	437	0.97	215	↘	0.91	133
0.85	4087	↘	0.64	1186	0.86	1007	↘	0.75	478	0.73	217	↘	0.68	110
0.99	2642	↘	1.05	1151	0.88	612	↘	0.90	351	0.95	172	↘	0.81	100
0.90	4111	↘	0.86	1468	0.84	989	↘	0.90	517	0.77	237	↘	0.68	126
	58			47		7			6		2			1
	136463	↘		**58298**		**36621**	↘		**20986**		**9714**			**6049**

04 End/Nut/Met. Diseases etc.					05 Diabetes					06 Circulatory System				
SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75
0.63	7		0.22	2	0.37	3	↘	–	–	1.11	145	↘	0.94	53
1.72	38	↗	0.83	13	1.59	26	↗	0.95	10	1.16	306		0.87	89
0.94	11		1.82	9	1.03	9		1.88	7	1.01	149	↘	0.77	38
2.00	15		0.47	4	2.33	13	↗	0.45	2	0.63	55	↘	0.95	27
1.00	21		0.55	7	0.64	10	↘	0.54	4	0.89	241	↘	0.78	60
1.12	34	↗	2.10	16	1.11	25	↗	0.91	10	0.95	361	↘	1.00	110
1.38	20		0.53	7	1.77	19		0.85	7	1.09	200	↘	0.92	63
0.15	1		–	–	0.20	1		–	–	0.87	77		1.23	23
1.60	45	↗	1.34	15	1.67	35	↗	1.09	10	1.19	425	↘	1.19	115
1.38	23		1.02	9	1.59	20		1.43	8	0.99	206	↘	1.11	67
0.71	25		0.94	8	0.56	15	↘	0.92	5	1.05	466	↘	1.04	140
1.06	74		1.26	26	1.15	60	↗	1.55	20	0.95	864		1.06	224
1.06	8		1.27	3	0.86	5		1.11	2	1.01	95		1.20	35
1.01	6		0.90	3	1.12	5		1.28	2	1.17	83		1.46	39
0.83	4		0.24	2	0.85	3		0.42	2	1.12	62		1.05	20
1.32	9		1.38	4	1.20	6		1.40	3	1.60	130		1.82	47
0.82	34		0.45	11	0.84	26		0.68	10	0.98	502	↘	0.94	166
0.95	10	↗	0.97	6	1.02	8	↗	1.06	5	1.21	158		0.99	40
1.10	80		0.94	32	1.18	64		0.85	25	1.06	970	↘	1.08	281
0.67	127		0.71	44	0.59	83		0.58	26	0.87	2071	↘	0.81	538
1.15	102		1.20	46	1.12	74		1.36	34	1.05	1115	↘	1.24	452
0.82	11	↘	1.89	8	0.60	6	↘	1.00	4	1.25	190		1.35	92
1.30	4		4.17	4	0.45	1		0.71	1	1.20	41		1.33	21
1.31	22	↗	1.32	14	1.55	19	↗	1.79	12	1.23	234		1.33	110
0.98	18	↘	0.56	8	0.88	12		0.59	5	1.06	226	↘	0.96	95
1.62	6		0.09	1	1.84	5		0.16	1	1.21	54		1.72	26
0.67	5		1.69	4	0.36	2		1.59	2	0.99	87		1.19	45
1.05	10		1.29	7	1.43	10		2.17	7	1.28	144	↘	1.52	63
1.60	16		2.17	9	1.33	10	↘	1.97	7	1.30	159		1.60	64
1.03	82	↗	0.92	34	1.18	70	↗	1.07	29	1.08	1072	↘	0.94	294
0.91	110	↗	1.07	49	0.88	79		0.90	33	1.05	1609	↘	1.00	398
1.05	105		0.77	41	1.05	78		0.75	25	1.04	1284	↘	1.01	377
0.97	301	↗	1.03	144	1.01	232		1.12	110	1.01	3859	↘	1.00	1190
0.87	71		0.61	29	0.98	59		0.68	22	0.96	951	↘	0.79	286
0.87	121		0.51	44	0.83	85		0.57	33	0.83	1415	↘	0.73	421
1.35	87	↗	1.61	36	1.40	66		1.57	27	1.14	956	↘	1.28	235
1.07	215		1.13	88	1.06	158		1.06	64	1.02	2610	↘	0.81	656
1.28	75	↗	0.86	28	1.41	61	↗	0.84	19	1.20	853	↘	1.14	280
1.18	142		1.09	69	1.35	118	↗	1.36	56	1.05	1472	↘	0.92	528
0.90	105		0.69	48	0.89	77		0.72	33	0.98	1397	↘	0.76	399
0.60	48		0.50	10	0.62	37		0.55	8	0.87	918	↘	0.46	144
0.69	23		1.01	10	0.76	19		1.10	7	1.07	439	↘	1.21	146
1.08	26	↗	1.09	8	0.72	13		0.56	4	1.12	339	↘	1.09	96
1.46	19		1.63	11	1.72	16		1.50	8	1.07	152		0.90	67
1.11	2		3.59	2	–	–		–	–	1.09	22	↘	1.41	13
1.73	5		1.62	2	1.44	3		1.57	1	1.23	40		1.33	19
2.12	1		13.97	1	–	–		–	–	1.05	6	↘	2.63	6
1.44	15		0.67	7	1.59	12		0.67	5	1.32	157	↘	1.26	66
1.02	3		–	–	0.94	2		–	–	1.23	41		1.65	21
1.05	10		1.06	6	1.02	7		0.86	4	1.11	120		1.12	47
0.91	5		0.74	3	1.23	5		1.27	3	1.23	79	↘	1.77	43
0.78	8		1.11	5	0.53	4		0.37	2	1.15	133		1.24	55
1.60	84		1.24	47	1.53	58		1.28	35	1.19	685	↘	1.19	340
1.33	25		0.85	13	1.53	21		1.43	11	1.04	230	↘	1.13	78
1.27	19	↗	1.07	13	1.48	16	↗	1.71	11	1.03	174	↘	1.08	77
0.94	309	↗	1.39	104	0.88	212	↗	1.23	73	0.99	4347	↘	0.98	801
1.13	44		1.07	21	1.04	30		0.79	13	0.99	454	↘	1.05	176
0.73	69	↘	0.93	27	0.64	46	↘	0.88	18	0.80	968	↘	0.71	219
0.53	12		0.50	6	0.35	6		0.42	3	0.79	225	↘	0.88	67
0.71	40	↘	0.97	19	0.69	29		0.71	13	0.97	680	↘	1.05	231
0.88	5		0.25	2	0.71	3		0.31	1	0.82	54		0.83	26
0.79	17		0.89	11	0.74	12		0.61	6	1.17	314	↘	1.41	101
0.98	97		1.51	41	1.02	75		1.13	28	1.10	1342	↘	1.22	416
0.72	45		0.83	17	0.69	33		0.97	12	0.99	767	↘	0.99	253
1.66	50	↗	1.46	21	1.78	40	↗	1.54	14	1.13	412	↘	1.40	164
1.16	68		0.56	27	1.26	55	↗	0.53	23	1.07	756	↘	0.92	251
0.96	30		0.86	16	1.09	25		1.45	16	1.13	411	↘	1.06	163
1.23	36		0.68	12	1.34	29		1.14	11	1.12	396		1.15	133
1.77	13	↗	0.58	5	1.83	10	↗	0.51	4	1.16	102		1.14	34
1.09	23		2.62	10	1.13	18		2.18	8	0.93	255	↘	0.61	48
0.56	5		0.77	2	0.45	3		1.22	2	1.18	133		1.28	47
0.96	6		1.17	4	0.88	4		1.95	3	1.10	73	↘	0.98	43
1.65	3		0.76	3	1.62	2		1.01	2	1.29	24		1.88	14
2.91	3		12.27	2	1.34	1		–	–	1.30	15		1.70	8
1.21	8	↗	0.45	5	0.85	4		0.32	2	1.24	88	↘	1.51	59
0.79	1		2.50	1	1.09	1		4.34	1	0.65	10		0.67	4
1.23	15	↗	0.72	8	1.58	14	↗	1.30	8	1.17	159	↘	1.40	80
2.82	3		3.02	3	2.59	2		3.50	2	1.33	16		4.11	10
0.91	81		0.81	29	0.71	46		0.88	20	0.98	1123	↘	1.07	323
1.39	81		1.74	40	1.44	62		1.86	31	1.13	832	↘	2.21	400
1.11	99		1.15	36	1.18	78		0.89	28	0.87	959	↘	0.93	306
0.79	110		0.41	24	0.71	72		0.47	19	0.82	1510	↘	0.56	258
1.04	80		1.03	36	1.14	64		1.49	30	0.95	911	↘	0.98	256
1.04	139		0.90	54	1.01	100		0.86	40	0.91	1563	↘	0.89	368
	2			2		1			1		15			9
	3992	↗		**1661**		**2953**	↗		**1216**		**49772**	↘		**14709**

07 Ischaemic Heart Disease					08 Cerebro. Disease/Stroke					09 Arteries/Arterioles/Capillaries					10 Respiratory System				
SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75
1.22	82	↘	1.36	37	0.75	21		0.32	5	0.95	7		0.16	2	0.82	30	↘	0.72	12
0.96	131		0.71	40	1.14	66		0.73	13	1.53	23		0.70	7	1.00	75	↘	0.95	24
1.14	85	↘	0.79	27	0.95	31		1.48	8	0.59	5	↘	–	–	0.93	40		0.69	9
0.65	30	↘	1.19	20	0.48	9	↘	0.54	4	1.19	6		0.12	1	0.98	24	↗	0.59	6
0.84	115	↘	0.63	31	0.96	58		0.95	16	0.90	14	↘	1.09	3	0.79	63		1.10	16
1.03	198	↘	1.05	67	0.82	69	↘	1.13	20	1.15	25	↘	1.16	9	0.81	90		0.53	15
1.28	119		1.22	44	0.79	32	↘	0.69	7	1.35	14		0.34	4	0.60	32		0.62	9
0.74	33		0.93	14	1.01	20		3.14	6	1.00	5		–	–	1.70	44		2.22	8
1.18	213	↘	1.37	70	1.06	86	↘	0.94	16	1.66	34	↘	1.06	10	0.99	104	↗	0.80	22
1.03	110	↘	1.06	37	0.99	45		1.46	14	0.66	8	↘	0.37	3	0.84	51		0.56	10
1.07	245	↘	1.37	93	1.05	103		0.55	17	1.04	27		1.25	8	0.96	126		0.98	25
0.94	430	↘	1.01	123	0.91	189		0.91	39	1.08	57		1.51	15	0.78	213		0.68	39
1.24	61		1.06	22	0.74	15		2.54	7	0.72	4	↘	0.72	2	0.87	24		1.57	7
1.02	38		1.03	20	0.92	14		0.82	5	1.47	6		1.41	2	1.39	28		1.22	9
1.21	35		1.64	17	0.85	10	↘	–	–	–	–		–	–	1.29	20	↘	2.69	12
1.08	45	↘	1.10	18	2.03	36	↗	3.63	13	1.97	9		0.96	1	1.23	28	↗	0.20	4
1.00	263	↘	1.02	96	0.80	90	↘	0.88	20	1.24	37	↘	1.32	17	0.80	120		0.71	27
1.06	71	↘	0.87	21	1.49	43	↗	1.99	9	1.59	12		0.59	3	0.97	37		1.17	12
1.05	489	↘	1.01	142	1.11	227		0.88	57	1.18	62		2.29	28	0.93	248	↘	0.91	59
0.81	974	↘	0.74	278	0.84	449	↘	0.99	101	0.93	128		0.93	33	1.00	704	↗	1.07	157
1.01	552	↘	1.17	258	0.85	195		1.00	65	1.06	64	↘	1.52	24	1.17	351		1.25	120
1.18	96	↘	1.18	51	1.28	40		1.82	14	2.05	18		1.79	8	1.20	50		1.81	22
1.33	24		1.16	12	1.27	9	↗	1.71	5	0.52	1		1.68	1	1.19	11		0.69	4
0.92	91	↘	1.25	54	1.32	53		1.09	17	1.13	12		1.05	7	1.39	72		1.09	22
1.01	113	↘	1.12	54	1.06	48	↘	0.74	19	0.82	10		0.66	4	1.25	75		1.51	31
1.35	31		2.38	18	0.93	9		1.47	4	1.19	3		–	–	1.42	18		1.97	6
0.97	45		0.86	24	1.02	19		1.52	9	0.99	5		1.83	2	1.69	42		3.42	17
1.39	81	↘	1.59	36	1.03	25	↘	1.19	9	1.08	7		1.54	5	1.34	43		1.51	18
1.17	74	↘	1.41	33	1.09	29		0.93	11	2.11	15	↗	5.43	6	0.88	31	↘	1.55	11
1.21	611	↘	1.04	195	1.04	230	↘	0.83	41	0.91	52	↘	0.32	11	0.97	281		1.06	75
1.08	832	↘	0.95	223	1.02	351		1.16	64	0.93	82		1.20	28	0.93	421	↗	0.96	88
1.12	700	↘	0.98	216	1.08	296		1.27	71	1.08	76		1.63	25	0.94	336		1.00	83
1.10	2133	↘	1.05	716	0.97	829	↘	1.08	206	0.95	206	↘	0.90	61	0.94	1037		0.84	245
0.99	498	↘	0.86	172	1.00	217	↘	0.73	53	1.21	67		1.00	13	0.86	241		0.53	51
0.89	767	↘	0.79	252	0.85	324	↘	0.76	80	0.60	58	↘	0.73	20	0.90	439		0.54	84
1.12	459	↘	1.22	133	1.24	242	↗	1.16	43	1.18	55	↘	1.51	10	1.17	286	↗	1.58	61
1.07	1362	↘	0.83	368	1.06	611	↘	0.84	123	0.96	138	↘	1.00	49	1.01	751		0.78	159
1.23	444	↘	1.17	165	1.26	198		1.32	58	1.04	42	↘	0.84	13	1.15	234	↘	1.22	87
1.01	724	↘	0.97	305	1.18	363		0.99	98	1.01	79	↘	0.86	31	1.21	477	↘	1.08	140
0.96	690	↘	0.79	228	1.01	321	↘	0.72	63	1.17	94	↘	1.21	31	1.04	422	↘	0.77	96
0.82	430	↘	0.41	82	1.09	264	↘	0.55	28	0.74	44	↘	0.46	5	0.86	268		0.37	31
0.98	206	↘	1.24	88	1.04	94		0.93	21	1.05	25		1.19	7	0.91	108		0.88	29
1.05	162	↘	1.13	54	1.25	84		0.98	18	0.98	17	↘	0.83	4	0.79	70		0.90	18
0.93	69		0.72	35	0.91	27		0.55	8	1.88	15		1.48	6	1.17	45	↘	0.50	14
1.22	13	↘	1.37	9	1.20	5		0.13	1	0.87	1		1.22	1	0.72	4	↘	1.35	2
1.00	17	↘	1.06	9	1.17	8		1.27	3	0.56	1		0.24	1	1.37	12	↗	1.21	5
0.69	2		1.77	2	1.64	2		6.96	2	–	–		–	–	–	–		–	–
1.11	68	↘	1.12	32	0.95	24		0.70	8	0.90	6	↘	1.75	5	0.88	29	↘	1.05	11
0.91	16		2.04	11	1.16	8		0.84	2	0.52	1		–	–	1.48	14	↗	3.34	6
1.00	56	↘	1.38	29	1.01	23	↘	0.95	8	0.99	6		0.08	1	1.04	31		0.85	13
0.98	33	↘	1.66	24	1.26	17		2.50	7	1.62	6		0.81	3	1.05	19		0.99	4
0.91	55	↘	0.93	27	1.00	24		0.94	5	0.76	5		0.46	2	0.94	30		0.52	11
1.14	347	↘	1.32	202	1.28	154		1.20	62	1.23	40	↘	1.07	18	1.33	208		0.99	70
1.04	119	↘	1.18	48	0.90	43		0.79	10	0.71	9		0.89	5	1.25	79		1.37	27
1.24	109	↘	1.54	56	0.62	22	↘	0.69	10	0.63	6	↘	0.20	2	1.18	55		1.75	23
0.95	2030	↘	0.91	434	1.00	1034		1.02	165	0.95	233	↘	1.02	45	0.94	1228		0.96	210
0.95	225	↘	1.15	113	0.94	93		0.90	22	1.29	34		0.85	9	0.95	123		0.87	36
0.67	413	↘	0.61	118	0.92	249	↘	0.53	41	1.25	88		0.94	13	0.84	301	↘	0.69	60
0.72	105	↘	0.80	37	0.92	58		1.41	15	0.42	7		0.12	2	0.88	73	↗	0.57	13
0.88	315	↘	0.89	117	0.96	147		1.15	40	1.22	49	↘	1.52	19	1.09	219	↗	1.42	68
0.60	21	↘	0.86	13	0.93	13		0.58	5	1.83	7		3.84	5	0.81	15	↗	0.36	3
1.22	168	↘	1.47	64	0.93	55		1.34	12	1.22	19	↘	0.87	4	1.25	98	↗	1.67	28
1.19	738	↘	1.31	262	1.04	283	↘	1.44	74	1.38	97	↘	1.26	26	0.96	339		1.10	102
0.92	370	↘	1.08	147	0.93	158	↘	0.97	45	1.07	49	↘	0.67	12	0.94	212		0.65	47
1.10	205	↘	1.36	93	1.03	82	↘	1.36	27	1.35	28	↘	1.81	12	1.09	112		1.32	37
1.05	381	↘	0.94	139	1.07	164		0.96	47	1.06	43	↘	0.62	11	0.96	195	↗	1.02	50
1.08	204	↘	1.19	94	1.08	84		1.01	31	1.30	27	↘	0.77	7	0.90	92		0.86	30
1.15	209	↘	1.03	73	1.09	85		1.16	27	0.99	20		1.71	8	1.48	151	↗	1.78	40
1.12	51		1.15	22	1.37	26		0.89	4	0.20	1		0.14	1	1.13	28		0.34	6
0.98	136	↘	0.44	21	0.97	60		0.65	13	1.19	19		0.50	2	0.96	79		1.08	11
1.26	73		1.59	31	1.05	26	↗	1.16	6	1.22	8		0.72	3	0.99	33		3.32	15
1.04	37	↘	1.40	24	1.06	14	↘	0.37	6	0.54	2		0.60	2	1.20	21		1.55	13
1.65	16	↗	2.34	9	0.53	2		0.45	1	0.99	1		2.01	1	0.82	4		0.40	2
0.65	4		0.59	1	0.86	2		2.81	1	–	–		–	–	1.52	5		3.54	4
1.27	48	↘	1.67	37	1.05	15	↘	0.98	9	1.03	4		4.14	4	0.75	14	↗	0.47	4
0.75	6		0.97	2	0.31	1		–	–	–	–		–	–	1.59	7		2.07	1
1.11	79	↘	1.43	42	1.13	32		1.66	16	0.78	6		0.06	1	1.56	58		1.50	19
1.42	9	↘	5.38	6	0.40	1		–	–	1.44	1		8.00	1	0.89	3		1.69	2
1.05	591	↘	1.04	189	0.97	260		1.11	57	0.81	51	↘	0.64	13	1.25	415	↗	1.63	94
1.18	439	↘	1.92	227	0.98	162	↘	1.92	61	0.93	39	↘	1.37	15	1.40	299		4.21	156
0.87	482	↘	0.93	160	1.04	254	↘	1.09	76	0.85	53	↘	0.37	10	0.81	257		0.77	61
0.79	714	↘	0.49	130	0.88	379	↘	0.55	48	0.80	82	↘	0.44	14	1.04	560		0.53	67
0.97	467	↘	0.83	133	1.01	218	↘	0.89	48	0.74	40	↘	0.51	7	1.15	322		1.09	74
0.94	802	↘	0.82	209	0.93	365	↘	0.93	79	0.72	70	↘	0.98	15	0.91	456		0.54	64
	9			5		2			1		2			1		4			1
	25164	↘		**8482**		**11147**	↘		**2602**		**2830**	↘		**820**		**14429**			**3489**

BR…

TABLE B

BRITISH COLUMBIA BY LOCAL HEALTH AREA

BRITISH COLUMBIA 1995–1999

7 Heart Disease			08 Cerebro. Disease/Stroke			09 Arteries/Arterioles/Capillaries			10 Respiratory System			11 Pneumonia and Influenza			12 Chronic Lung Disease			13 Digestive System			14 Motor Vehicle Traffic Accidents			15 Accidental Falls			16 Suicide			17 Alcohol–related Deaths			18 Medically Treatable Disease			19 Drug–induced Deaths		
PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR*	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75
1.36	37	0.75	21		0.32	5	0.95	7		0.16	2	0.82	30	▲	0.72	12	0.75	12		0.99	5	0.96	14		0.63	6	0.91	13	▲	0.63	9	1.22	10		1.16	9	0.41	2		0.26	1	0.40	4		0.46	4	0.64	21		0.44	15	–	–	–	–	–	–
0.71	40	1.14	66		0.73	13	1.53	23		0.70	7	1.00	75	▲	0.95	24	0.79	26	▲	1.12	7	1.25	38	▲	0.98	13	0.69	19	▲	0.77	12	0.91	12		0.97	12	0.93	9		0.41	2	1.21	19		1.03	19	0.94	54	◢	0.97	44	0.49	2	0.56	2	0.53	8	0.52	7
0.79	27	0.95	31		1.48	8	0.59	5	▲	–	–	0.93	40		0.69	9	0.36	7		0.59	2	1.33	23	▲	1.15	5	0.98	14		0.40	4	1.46	7	▲	1.92	6	0.38	2		1.56	2	0.84	5		1.11	5	1.12	29	◢	1.18	24	0.66	1	0.66	1	0.55	3	0.47	3
1.19	20	0.48	9	▲	0.54	4	1.19	6		0.12	1	0.98	24	◢	0.59	6	0.85	9		0.63	2	1.29	13		1.04	4	0.64	6		0.28	1	1.12	5		1.31	5	–	–		1.07	6	1.22	6		1.05	22	0.93	15	0.68	1	1.04	1	0.19	1	0.01	1
0.63	31	0.96	58		0.95	16	0.90	14	▲	1.09	3	0.79	63		1.10	16	0.93	34	◢	2.02	9	0.72	23		0.31	5	0.99	25		1.13	11	1.21	8		1.43	7	0.94	9	▲	0.07	1	0.85	7		1.25	7	0.90	38	◢	1.08	32	0.95	2	0.74	2	0.85	6	0.81	6
1.05	67	0.82	69	▲	1.13	20	1.15	25	▲	1.16	9	0.81	90		0.53	15	0.70	35		0.82	5	1.03	45	◢	0.57	8	0.82	31		0.49	7	2.74	41	◢	3.01	37	1.35	19		2.92	6	1.31	24		1.35	24	1.33	95	◢	1.35	68	0.84	4	1.00	4	0.58	10	0.45	9
1.22	44	0.79	32	▲	0.69	7	1.35	14		0.34	4	0.60	32		0.62	9	0.41	10		1.36	4	0.67	14	◢	0.18	3	1.39	25	◢	0.84	11	1.27	9		1.36	8	1.47	10		2.91	3	1.15	10		1.16	9	1.06	36	◢	1.31	31	0.90	2	0.97	2	0.98	8	0.77	7
0.93	14	1.01	20		3.14	6	1.00	5		–	–	1.70	44		2.22	8	1.82	22	◢	5.37	5	1.91	19		0.53	2	0.95	8	▲	1.52	5	1.45	4	▲	1.12	3	1.23	4		–	–	1.16	4		0.66	3	1.14	17		1.19	11	2.27	2	1.26	2	0.32	1	–	–
1.37	70	1.06	86	▲	0.94	16	1.66	34	▲	1.06	10	0.99	104	◢	0.80	22	1.02	49	◢	0.51	5	1.05	44		1.06	12	0.97	33	▲	1.28	15	1.10	12		1.16	11	1.15	15		2.26	4	1.27	17		1.14	16	1.07	62	◢	0.99	45	0.89	3	0.61	3	0.80	10	0.77	9
1.06	37	0.99	45		1.46	14	0.66	8	▲	0.37	3	0.84	51		0.56	10	0.98	26		0.44	3	0.85	16	◢	0.94	6	1.17	24		1.24	13	2.67	18		2.87	16	1.11	8		–	–	1.06	9	▲	0.62	6	1.18	46	◢	1.91	38	1.34	3	1.39	3	0.92	7	0.92	7
1.37	93	1.05	103		0.55	17	1.04	27		1.25	8	0.96	126		0.98	25	1.01	58		1.89	8	0.92	50		0.48	11	1.04	43		1.10	19	1.44	14		1.05	10	1.40	21	◢	0.47	3	1.06	13	◢	1.35	11	0.95	68	◢	0.89	45	0.66	2	1.28	2	0.40	4	0.43	4
1.01	123	0.91	189		0.91	39	1.08	57		1.51	15	0.78	213		0.68	39	0.76	95		0.46	9	0.78	84		0.70	17	1.02	84		1.37	38	1.42	30	▲	1.09	23	1.31	43		0.84	11	0.97	25	▲	1.00	20	1.18	154	◢	1.34	102	1.15	7	0.93	7	0.65	15	0.56	14
1.06	22	0.74	15		2.54	7	0.72	4	▲	0.72	2	0.87	24		1.57	7	0.52	6		1.24	2	1.10	13		0.32	3	0.89	8		1.97	5	2.52	6		4.09	6	1.63	5		9.76	2	2.24	7		1.69	5	1.17	20	◢	1.68	15	1.24	1	1.38	1	0.38	1	–	–
1.03	20	0.92	14		0.82	5	1.47	6		1.41	2	1.39	28		1.22	9	1.63	14		0.35	1	1.43	12		2.38	7	1.08	8		0.63	2	1.93	5		1.32	4	2.08	5		1.38	4	1.17	4		0.97	3	0.98	15	◢	1.37	12	–	–	–	–	0.65	2	0.49	2
1.64	17	0.85	10	▲	–	–	–	–		1.29	20	▲	2.69	12	0.74	5	▲	0.81	5	1.38	5	1.30	5		1.71	5	–	–		–	–	–	–		0.84	4	1.10	4		0.60	9	◢	0.90	8	0.84	1	0.77	1	–	–	–	–
1.10	18	2.03	36	◢	3.63	13	1.97	9		0.96	1	1.23	28	◢	0.20	4	1.28	13		–	–	1.11	10		0.52	3	1.38	12		0.59	4	1.34	6		1.29	6	2.30	7		0.10	1	1.27	7		0.90	6	1.33	25	◢	0.87	15	–	–	–	–	0.18	1	0.10	1
1.02	96	0.80	90	▲	0.88	20	1.24	37	▲	1.32	17	0.80	120		0.71	27	0.78	51		1.17	11	0.86	53		0.46	10	0.92	46		1.20	26	2.23	36		2.29	32	1.29	23	◢	0.06	2	1.19	24		1.23	22	0.81	76	◢	1.03	58	1.14	6	1.26	6	0.61	11	◢	0.56	10
0.87	21	1.49	43	◢	1.99	9	1.59	12		0.59	3	0.97	37		1.17	12	0.65	11	▲	1.55	3	1.17	18		1.64	8	0.46	6		–	–	2.23	11	▲	2.51	9	0.85	4		0.28	1	0.50	3		0.63	3	0.77	19	◢	1.11	14	–	–	–	–	0.18	1	0.01	1
1.01	142	1.11	227		0.88	57	1.18	62		2.29	28	0.93	248	◢	0.91	59	0.85	102	◢	0.94	14	1.04	112		1.17	35	1.02	90		0.87	33	1.50	45		1.71	40	0.92	30		1.29	8	1.21	44		1.20	39	1.15	183	◢	1.28	143	0.65	6	0.85	6	0.80	27	◢	0.86	22
0.74	278	0.84	449	▲	0.99	101	0.93	128		0.93	33	1.00	704	◢	1.07	157	1.14	360	◢	1.34	54	0.89	251	◢	0.84	71	0.89	203		0.80	75	0.84	63	▲	0.86	59	0.94	81	▲	0.54	13	1.04	96		1.08	87	0.88	353	◢	1.07	259	0.57	13	0.60	13	0.54	46	◢	0.50	43
1.17	258	0.85	195		1.00	65	1.06	64	▲	1.52	24	1.17	351		1.25	120	0.94	124		1.10	34	1.39	170	◢	1.11	62	1.33	148		1.68	93	1.80	95		1.57	82	1.30	50		1.53	19	1.36	87	◢	1.31	81	1.40	329	◢	1.73	274	1.02	17	1.08	17	1.26	77	◢	1.24	72
1.18	51	1.28	40		1.82	14	2.05	18		1.79	8	1.20	50		1.81	22	1.00	17		1.64	8	1.44	26		0.82	9	1.12	19		1.56	14	2.66	21		2.62	21	1.39	7		2.93	3	1.20	12		0.97	10	1.65	66	◢	1.80	50	1.80	5	3.18	5	1.30	12	◢	1.31	12
1.16	12	1.27	9	◢	1.71	5	0.52	1		1.68	1	1.19	11		0.69	4	1.02	4		–	–	1.87	7		2.26	4	1.48	6		1.59	5	3.47	9		3.02	7	0.79	1		1.15	1	0.63	2		0.25	2	0.98	10		0.77	10	1.18	1	0.51	1	0.32	1		0.26	1
1.25	54	1.32	53		1.09	17	1.13	12		1.05	7	1.39	72		1.09	22	1.07	24		0.92	6	1.78	37		1.84	12	1.00	22	▲	1.25	16	3.21	47	▲	3.22	47	1.53	11		1.29	4	1.55	27		1.80	27	1.39	75	◢	1.47	60	1.55	7	1.22	7	0.29	5		0.36	5
1.12	54	1.06	48	▲	0.74	19	0.82	10		0.66	4	1.25	75		1.51	31	1.32	34		1.64	14	1.22	30		1.37	10	1.11	26	▲	0.97	12	2.07	28		2.10	27	1.92	15	◢	1.49	6	1.35	22		1.49	22	0.86	47	◢	0.98	39	0.96	4	1.15	4	0.51	8	▲	0.50	8
2.38	18	0.93	9		1.47	4	1.19	3		–	–	1.42	18		1.97	6	1.40	8		1.41	3	1.20	6		0.60	1	1.70	8	▲	1.35	6	4.29	11	▲	4.00	11	0.59	1		3.59	1	1.66	5		1.84	5	2.38	24		1.60	19	1.35	1	0.57	1	0.34	1	0.28	1
0.86	24	1.02	19		1.52	9	0.99	5		1.83	2	1.69	42		3.42	17	1.14	12		0.34	2	2.13	22		2.80	10	1.29	12	▲	2.80	8	2.31	9	▲	2.23	7	1.33	4		1.59	2	1.43	7		1.90	6	1.44	29		1.79	24	3.10	4	4.59	4	0.44	2	0.19	1
1.59	36	1.03	25	▲	1.19	9	1.08	7		1.54	5	1.34	43		1.51	18	1.21	17		1.14	6	1.61	21	◢	1.73	7	1.77	21		1.53	13	2.64	16		3.08	16	1.21	5		0.73	2	1.68	12	▲	1.88	12	2.23	57	◢	2.57	49	2.20	4	1.81	4	1.75	12		1.44	12
1.41	33	1.09	29		0.93	11	2.11	15	◢	5.43	6	0.88	31	▲	1.55	11	0.99	15		2.26	3	0.82	12	▲	1.46	5	2.13	26	◢	2.21	9	3.02	13		2.92	12	1.43	6		1.82	3	2.07	11		2.26	11	1.59	38	◢	1.84	30	0.73	1	0.34	1	1.66	8	1.74	8
1.04	195	1.04	230	▲	0.83	41	0.91	52	▲	0.32	11	0.97	281		1.06	75	1.01	131		1.51	28	0.94	110		0.88	33	1.13	109	▲	1.12	45	1.56	55		1.74	52	1.09	39		1.44	11	1.07	45		1.01	40	0.90	158	◢	0.85	112	0.99	10	0.82	10	1.06	42	◢	0.98	39
0.95	223	1.02	351		1.16	64	0.93	82		1.20	28	0.93	421	◢	0.96	88	0.91	189		0.88	24	0.95	170	◢	1.11	46	0.90	131	▲	0.92	54	0.86	50	▲	0.81	45	0.58	33		0.33	7	0.96	65		1.06	59	0.55	144	◢	0.59	106	0.95	15	0.94	15	0.90	58	◢	0.98	57
0.98	216	1.08	296		1.27	71	1.08	76		1.63	25	0.94	336		1.00	83	0.96	153		0.87	25	0.98	126	▲	0.94	40	1.11	137		1.01	61	0.92	51	▲	0.93	48	0.79	36	▲	0.40	5	0.73	49		0.69	42	0.76	185	◢	0.57	134	1.55	26	1.59	26	0.69	45	◢	0.63	42
1.05	716	0.97	829	▲	1.08	206	0.95	206	▲	0.90	61	0.94	1037		0.84	245	0.85	424		0.72	66	0.98	432		1.00	124	0.90	346	▲	0.83	173	0.84	146	▲	0.88	137	0.67	95		0.63	22	0.80	168	▲	0.80	156	0.74	557	◢	0.68	414	1.03	53	1.07	53	1.04	213	◢	1.12	206
0.86	172	1.00	217	▲	0.73	53	1.21	67		1.00	13	0.86	241		0.53	51	0.81	101		0.52	16	0.87	96	▲	0.57	21	0.80	83	▲	0.58	38	0.64	33	▲	0.61	27	0.87	32		0.98	12	0.53	33		0.62	31	0.66	142	◢	0.48	94	0.73	12	0.69	12	0.43	26	◢	0.46	25
0.79	252	0.85	324	▲	0.76	80	0.60	58	▲	0.73	20	0.90	439		0.54	84	0.94	208	◢	0.49	28	0.80	155	▲	0.35	28	0.80	140	▲	0.62	59	0.52	43	▲	0.53	39	0.85	54		0.44	9	0.62	62		0.54	58	0.47	164	◢	0.35	118	0.50	13	0.43	13	0.49	48		0.41	42
1.22	133	1.24	242	◢	1.16	43	1.18	55	▲	1.51	10	1.17	286	◢	1.58	61	1.24	144	◢	1.82	21	1.04	96		1.45	28	1.09	86	▲	1.23	38	0.61	17		0.61	15	0.93	30		0.65	5	1.35	48		1.36	47	1.38	180	◢	1.25	134	1.34	11	▲	1.40	11	2.11	76	◢	2.05	72
0.83	368	1.06	611	▲	0.84	123	0.96	138	▲	1.00	49	1.01	751		0.78	159	1.06	363		0.74	52	1.00	286		0.77	77	1.11	275		1.20	124	0.69	70	▲	0.71	64	0.83	80	▲	0.69	16	0.76	94		0.73	85	0.83	376	◢	0.67	273	0.60	18	0.56	18	0.85	102	◢	0.85	98
1.17	165	1.26	198		1.32	58	1.04	42	▲	0.84	13	1.15	234	▲	1.22	87	1.13	102	▲	1.22	26	1.33	107		1.52	49	0.96	71	▲	0.98	34	0.98	36	▲	0.88	33	0.79	21	◢	0.75	8	0.96	43	▲	0.98	41	0.82	125	◢	0.61	95	1.15	13	1.07	13	0.55	25	◢	0.51	25
0.97	305	1.18	363		0.99	98	1.01	79	▲	0.86	31	1.21	477	▲	1.08	140	1.18	209	▲	1.04	39	1.27	195		1.16	71	0.81	126	▲	0.61	62	0.43	39	▲	0.44	34	0.83	45	▲	0.57	15	0.74	83	▲	0.72	79	0.79	273	◢	0.53	195	0.76	22	◢	0.82	22	0.58	66	◢	0.56	62
0.79	228	1.01	321	▲	0.72	63	1.17	94	▲	1.21	31	1.04	422	▲	0.77	96	1.12	205	▲	0.59	21	0.98	157	▲	0.98	53	0.97	143	▲	0.63	53	0.57	37	▲	0.52	30	1.02	54		1.57	19	0.77	63		0.75	56	0.88	257	◢	0.65	170	1.03	22	1.15	22	0.77	63	◢	0.84	60
0.41	82	1.09	264	▲	0.55	28	0.74	44	▲	0.46	5	0.86	268		0.37	31	1.09	159		0.34	10	0.69	82		0.33	14	0.79	78	◢	0.56	23	0.50	13	▲	0.43	10	0.82	32		1.06	8	0.62	20		0.50	14	0.60	94	◢	0.52	61	0.58	5	0.52	5	0.64	18		0.48	13
1.24	88	1.04	94		0.93	21	1.05	25		1.19	7	0.91	108		0.88	29	0.78	41	▲	0.75	8	0.95	46		0.57	13	0.99	40		1.02	22	0.84	11	▲	0.71	9	1.46	21	◢	2.35	7	1.25	21		1.46	21	1.21	92	◢	1.20	71	0.91	4	0.88	4	0.90	14		0.96	14
1.13	54	1.25	84		0.98	18	0.98	17	▲	0.83	4	0.79	70		0.90	18	0.82	33		1.02	9	0.75	26		0.48	8	0.67	20	▲	0.77	10	0.48	5	▲	0.32	5	1.09	12	◢	0.17	2	1.29	17		1.16	14	1.39	77	◢	1.65	60	1.48	5	1.22	5	0.90	11	◢	1.12	11
0.72	35	0.91	27		0.55	8	1.88	15		1.48	6	1.17	45	▲	0.50	14	1.45	24		0.30	6	1.04	16	▲	0.73	5	0.82	14		0.35	4	1.71	27		1.68	26	2.03	12	◢	2.82	8	1.07	20		1.06	20	1.76	83	◢	1.88	72	0.48	2	0.46	2	0.68	13	0.55	12		
1.37	9	1.20	5		0.13	1	0.87	1		1.22	1	0.72	4	▲	1.35	2	0.42	1		–	–	1.33	3		4.69	2	1.27	3		0.74	2	5.54	9		3.41	9	5.19	4		5.97	3	2.03	4		1.78	4	2.83	17		2.22	15	2.01	1	1.51	1	0.51	1	0.19	1
1.06	9	1.17	8		1.27	3	0.56	1		0.24	1	1.37	12	◢	1.21	5	2.05	8		2.34	3	0.30	1		–	–	1.80	7		1.48	4	0.70	2	▲	1.00	2	1.53	2		–	–	3.04	11		2.58	11	2.84	29	◢	2.25	25	1.13	1	1.22	1	1.07	4	0.89	4
1.77	2	1.64	2		6.96	2	–	–		–	–	–	–		–	–	–	–		–	–	–	–		–	–	–	–		–	–	–	–		2.07	1		2.64	1	–	–		–	–	0.62	1		0.64	1	–	–	–	–	–	–	–	–
1.12	32	0.95	24		0.70	8	0.90	6	▲	1.75	5	0.88	29	▲	1.05	11	0.62	9		0.69	2	1.07	14		2.14	7	1.41	19	▲	1.58	13	0.62	6	▲	0.54	6	1.92	9	◢	2.40	6	1.31	15		1.57	15	2.15	71	◢	2.08	62	1.79	5	1.61	5	0.95	11		1.02	11
2.04	11	1.16	8		0.84	2	0.52	1		–	–	1.48	14	◢	3.34	6	1.99	8		3.74	3	0.52	2		–	–	0.80	3		0.61	2	2.66	8		2.69	8	1.53	2		2.30	2	0.88	3		0.70	3	2.29	22	◢	2.12	17	2.55	2	3.46	2	0.59	2		0.74	2
1.38	29	1.01	23	▲	0.95	8	0.99	6		0.08	1	1.04	31		0.85	13	1.22	16		0.82	6	0.85	10		1.25	4	0.80	10		0.57	6	2.17	20	▲	2.45	20	0.47	2		0.51	1	0.64	7	▲	0.53	7	1.19	37	◢	1.20	33	0.38	1	0.27	1	0.09	1		0.10	1
1.66	24	1.26	17		2.50	7	1.62	6		0.81	3	1.05	19		0.99	4	1.30	10		0.59	2	1.06	8		2.42	2	1.59	11	◢	2.66	7	4.83	19		4.69	18	1.30	3		2.58	1	0.86	4	▲	1.09	4	1.12	18	◢	1.27	14	1.74	2	1.50	2	0.91	4		1.18	4
0.93	27	1.00	24		0.94	5	0.76	5		0.46	2	0.94	50		0.52	11	0.81	11		0.04	1	1.07	14		1.04	7	0.91	12		1.23	9	3.14	29		3.25	27	0.69	3		0.66	2	1.13	12		1.23	40	0.98	33	1.54	4	1.53	4	0.29	3	0.19	2
1.32	202	1.28	154		1.20	62	1.23	40	▲	1.07	18	1.33	208		0.99	70	1.29	86		0.83	19	1.50	95		1.38	35	1.40	97	▲	1.32	63	1.89	101	▲	1.74	95	0.93	21	▲	0.44	7	0.80	51	▲	0.91	51	1.00	181	◢	0.80	155	1.19	19	1.11	19	0.69	44	◢	0.65	43
1.18	48	0.90	43		0.79	10	0.71	9		0.89	5	1.25	79		1.37	27	1.28	36	◢	1.80	9	1.44	36		1.54	15	0.96	23		0.77	10	1.58	23	▲	1.80	23	1.17	10		0.06	2	0.98	17		1.00	17	1.29	70	◢	1.46	62	1.39	6	1.43	6	0.34	6		0.38	6
1.54	56	0.62	22	▲	0.69	10	0.63	6	▲	0.20	2	1.18	55		1.75	23	0.89	18		2.10	8	1.34	25		1.11	8	1.03	20		0.55	8	1.80	27		1.85	27	0.45	3		–	–	0.64	11	▲	0.60	11	0.84	41	◢	0.60	33	0.96	4	0.78	4	0.58	10		0.57	10
0.91	434	1.00	1034		1.02	165	0.95	233	▲	1.02	45	0.94	1228		0.96	210	0.86	542	▲	0.91	54	1.01	492	◢	1.18	115	0.95	374	▲	0.91	122	0.29	33	▲	0.28	26	1.28	217		0.95	28	1.15	156	◢	1.13	135	1.08	621	◢	1.01	411	0.96	30	1.03	30	1.43	185	◢	1.47	175
1.15	113	0.94	93		0.90	22	1.29	34		0.85	9	0.95	123		0.87	36	0.59	33	▲	0.30	5	1.25	66		1.83	22	0.83	41	▲	0.55	17	0.65	17	▲	0.66	15

TABLE A
SUMMARY STATISTICS BY LOCAL HEALTH AREA
BRITISH COLUMBIA 1995–1999

Local Health Area		1999 Population	Live Birth Total	Live Birth Rate	Stillbirth Total	Stillbirth Rate*	Death Total	Death Rate	Infant Death Total	Infant Death Rate*	Low Birth Wt. Live Birth Total	Low Birth Wt. Live Birth Rate*	Cesarean Total	Cesarean Rate*	Pre–term Total	Pre–term Rate*	Teenage Mother Total	Teenage Mother Rate*	Elderly Gravida Total	Elderly Gravida Rate*
001	Fernie	16538	735	9.21	2	2.71	363	4.55	4	5.44	28	38.10	141	191.84	16	21.77	67	91.16	73	99.32
002	Cranbrook	26248	1321	10.31	8	6.02	805	6.28	4	3.03	51	38.61	197	149.13	57	43.15	114	86.30	131	99.17
003	Kimberley	8947	338	7.52	1	2.95	380	8.45	1	2.96	10	29.59	67	198.22	12	35.50	26	76.92	40	118.34
004	Windermere	9430	411	9.36	4	9.64	205	4.67	4	9.73	17	41.36	67	163.02	18	43.80	22	53.53	54	131.39
005	Creston	13152	634	9.75	5	7.82	643	9.89	5	7.89	23	36.28	107	168.77	33	52.05	72	113.56	78	123.03
006/007	Kootenay Lake/Nelson	29168	1320	9.17	15	11.24	1034	7.18	6	4.55	57	43.18	182	137.88	57	43.18	78	59.09	223	168.94
009	Castlegar	13825	645	9.46	4	6.16	515	7.56	7	10.85	45	69.77	140	217.05	56	86.82	43	66.67	55	85.27
010	Arrow Lakes	5385	275	10.38	–	–	245	9.25	1	3.64	13	47.27	41	149.09	13	47.27	24	87.27	35	127.27
011	Trail	20939	895	8.49	5	5.56	1061	10.06	4	4.47	41	45.81	199	222.35	44	49.16	44	49.16	111	124.02
012/013	Grand Forks/Kettle Valley	13197	496	7.61	4	8.00	577	8.86	3	6.05	24	48.39	111	223.79	29	58.47	38	76.61	66	133.06
014	Southern Okanagan	18698	787	8.59	5	6.31	1117	12.20	4	5.08	60	76.24	157	199.49	60	76.24	37	47.01	100	127.06
015	Penticton	40315	1820	9.11	10	5.46	2207	11.04	7	3.85	104	57.14	332	182.42	126	69.23	162	89.01	228	125.27
016	Keremeos	4719	237	10.26	2	8.37	255	11.04	–	–	10	42.19	43	181.43	11	46.41	24	101.27	33	139.24
017	Princeton	5229	202	7.87	2	9.80	234	9.12	4	19.80	11	54.46	39	193.07	14	69.31	22	108.91	22	108.91
018	Golden	7776	405	10.59	1	2.46	182	4.76	1	2.47	12	29.63	95	234.57	16	39.51	34	83.95	49	120.99
019	Revelstoke	8738	473	10.65	–	–	302	6.80	3	6.34	24	50.74	123	260.04	26	54.97	32	67.65	73	154.33
020	Salmon Arm	33133	1291	8.17	7	5.39	1309	8.28	5	3.87	64	49.57	386	298.99	63	48.80	82	63.52	170	131.68
021	Armstrong–Spallumcheen	9904	453	9.35	2	4.40	377	7.78	2	4.42	25	55.19	102	225.17	29	64.02	32	70.64	50	110.38
022	Vernon	58982	2852	9.82	20	6.96	2527	8.70	9	3.16	118	41.37	665	233.17	144	50.49	207	72.58	342	119.92
023	Central Okanagan	150750	7213	9.93	35	4.83	5553	7.64	34	4.71	369	51.16	1411	195.62	454	62.94	402	55.73	1038	143.91
024	Kamloops	105592	5260	10.27	39	7.36	3359	6.56	23	4.37	280	53.23	1293	245.82	366	69.58	366	69.58	562	106.84
025	100 Mile House	16437	744	9.39	7	9.32	519	6.55	3	4.03	35	47.04	142	190.86	33	44.35	55	73.92	97	130.38
026	North Thompson	5324	293	11.27	3	10.14	125	4.81	2	6.83	4	13.65	54	184.30	6	20.48	32	109.22	31	105.80
027	Cariboo–Chilcotin	29364	1919	13.37	14	7.24	732	5.10	9	4.69	104	54.19	553	288.17	116	60.45	190	99.01	185	96.40
028	Quesnel	27476	1681	12.51	5	2.97	737	5.49	11	6.54	81	48.19	424	252.23	99	58.89	174	103.51	123	73.17
029	Lillooet	4901	339	13.76	2	5.87	170	6.90	1	2.95	11	32.45	83	244.84	16	47.20	37	109.14	30	88.50
030	South Cariboo	7873	412	10.61	3	7.23	282	7.26	4	9.71	29	70.39	85	206.31	29	70.39	56	135.92	40	97.09
031	Merritt	12200	721	12.09	5	6.89	415	6.96	4	5.55	45	62.41	171	237.17	64	88.77	79	109.57	67	92.93
032	Hope	8460	434	10.21	7	15.87	442	10.40	4	9.22	15	34.56	80	184.33	20	46.08	59	135.94	38	87.56
033	Chilliwack	71543	4396	12.64	25	5.65	2845	8.18	27	6.14	232	52.78	974	221.57	256	58.23	377	85.76	480	109.19
034	Abbotsford	115035	8186	14.63	52	6.31	3956	7.07	30	3.66	363	44.34	1613	197.04	446	54.48	417	50.94	780	95.28
035	Langley	113238	6470	11.79	53	8.13	3485	6.35	25	3.86	283	43.74	1259	194.59	350	54.10	210	32.46	874	135.09
036	Surrey	353704	25133	14.72	180	7.11	10158	5.95	120	4.77	1495	59.48	5554	220.98	1771	70.47	917	36.49	3344	133.05
037	Delta	101658	5620	11.19	38	6.72	2585	5.15	26	4.63	295	52.49	1173	208.72	373	66.37	141	25.09	1076	191.46
038	Richmond	164009	8287	10.50	57	6.83	3876	4.91	38	4.59	417	50.32	1788	215.76	533	64.32	145	17.50	1898	229.03
040	New Westminster	54177	3304	12.64	24	7.21	2525	9.66	18	5.45	190	57.51	584	176.76	232	70.22	154	46.61	633	191.59
041	Burnaby	190272	10157	10.82	63	6.16	6758	7.20	45	4.43	570	56.12	1686	165.99	695	68.43	326	32.10	2000	196.91
042	Maple Ridge	76911	4675	12.62	31	6.59	2279	6.15	24	5.13	227	48.56	1009	215.83	291	62.25	198	42.35	714	152.73
043	Coquitlam	187908	11295	12.46	76	6.68	4180	4.61	41	3.63	584	51.70	2031	179.81	753	66.67	280	24.79	2162	191.41
044	North Vancouver	130136	7065	11.00	40	5.63	3893	6.06	21	2.97	274	38.78	1375	194.62	399	56.48	90	12.74	2019	285.77
045	West Vancouver–Bowen Is.	49372	1566	6.38	12	7.60	2343	9.54	3	1.92	76	48.53	313	199.87	94	60.03	14	8.94	584	372.92
046	Sunshine Coast	27248	1224	9.30	9	7.30	1142	8.68	4	3.27	58	47.39	242	197.71	75	61.27	54	44.12	248	202.61
047	Powell River	20767	943	9.20	5	5.27	840	8.19	8	8.48	36	38.18	211	223.75	39	41.36	97	102.86	104	110.29
048	Howe Sound	31010	1962	13.67	22	11.09	526	3.67	5	2.55	98	49.95	353	179.92	139	70.85	85	43.32	348	177.37
049	Bella Coola Valley	3499	256	15.42	2	7.75	91	5.48	3	11.72	10	39.06	50	195.31	17	66.41	33	128.91	21	82.03
050	Queen Charlotte	5808	384	13.41	2	5.18	142	4.96	3	7.81	20	52.08	65	169.27	32	83.33	30	78.13	56	145.83
051	Snow Country	821	72	15.08	–	–	14	2.93	1	13.89	5	69.44	19	263.89	4	55.56	5	69.44	4	55.56
052	Prince Rupert	18746	1393	14.51	8	5.71	462	4.81	7	5.03	64	45.94	237	170.14	93	66.76	159	114.14	138	99.07
053	Upper Skeena	6073	420	14.35	2	4.74	119	4.06	4	9.52	23	54.76	61	145.24	34	80.95	69	164.29	26	61.90
054	Smithers	18766	1395	15.28	20	14.13	342	3.75	8	5.73	68	48.75	307	220.07	86	61.65	106	75.99	172	123.30
055/093	Burns Lake/Eutsuk	7934	538	13.89	3	5.55	232	5.99	7	13.01	21	39.03	100	185.87	32	59.48	49	91.08	47	87.36
056	Nechako	18469	1399	15.51	6	4.27	424	4.70	7	5.00	55	39.31	254	181.56	77	55.04	169	120.80	109	77.91
057	Prince George	107027	6523	12.41	68	10.32	2277	4.33	40	6.13	343	52.58	1431	219.38	423	64.85	504	77.27	577	88.46
059	Peace River South	29144	1842	12.59	7	3.79	722	4.93	5	2.71	63	34.20	331	179.70	89	48.32	194	105.32	164	89.03
060	Peace River North	30725	2340	15.90	15	6.37	551	3.74	5	2.14	92	39.32	443	189.32	125	53.42	183	78.21	241	102.99
061	Greater Victoria	205402	9376	9.09	74	7.83	11275	10.93	46	4.91	490	52.26	2351	250.75	653	69.65	442	47.14	1654	176.41
062	Sooke	54071	3080	11.69	4	1.30	1383	5.25	14	4.55	154	50.00	744	241.56	203	65.91	131	42.53	418	135.71
063	Saanich	60311	2196	7.34	5	2.27	2689	8.99	7	3.19	75	34.15	521	237.25	126	57.38	96	43.72	471	214.48
064	Gulf Islands	14584	507	7.23	3	5.88	650	9.26	–	–	9	17.75	98	193.29	11	21.70	22	43.39	97	191.32
065	Cowichan	53633	2685	10.32	19	7.03	1876	7.21	15	5.59	133	49.53	544	202.61	208	77.47	228	84.92	369	137.43
066	Lake Cowichan	6602	331	10.17	2	6.01	160	4.92	1	3.02	16	48.34	76	229.61	19	57.40	23	69.49	46	138.97
067	Ladysmith	16167	865	10.69	4	4.60	856	10.58	–	–	36	41.62	178	205.78	48	55.49	93	107.51	89	102.89
068	Nanaimo	93799	4540	9.95	29	6.35	3413	7.48	21	4.63	209	46.04	863	190.09	293	64.54	328	72.25	587	129.30
069	Qualicum	40004	1401	7.31	4	2.85	1970	10.28	6	4.28	62	44.25	306	218.42	94	67.09	65	46.40	255	182.01
070	Alberni	33284	1812	10.94	13	7.12	1244	7.51	12	6.62	73	40.29	373	205.85	120	66.23	208	114.79	201	110.93
071	Courtenay	59746	2862	9.86	26	9.00	2098	7.23	17	5.94	144	50.31	576	201.26	178	62.19	204	71.28	414	144.65
072/084	Campbell River/V.I. West	45255	2449	10.96	17	6.89	1185	5.31	13	5.31	109	44.51	552	225.40	138	56.35	194	79.22	293	119.64
075	Mission	37326	2319	12.68	16	6.85	1196	6.54	8	3.45	123	53.04	463	199.66	144	62.10	178	76.76	289	124.62
076	Agassiz–Harrison	8147	400	10.36	–	–	287	7.43	3	7.50	12	30.00	84	210.00	17	42.50	52	130.00	47	117.50
077	Summerland	11414	445	7.79	3	6.70	732	12.82	2	4.49	21	47.19	72	161.80	27	60.67	14	31.46	81	182.02
078	Enderby	7754	410	11.03	6	14.42	330	8.88	4	9.76	15	36.59	108	263.41	25	60.98	28	68.29	62	151.22
080	Kitimat	13042	750	11.52	5	6.62	242	3.72	4	5.33	32	42.67	214	285.33	56	74.67	69	92.00	90	120.00
081	Fort Nelson	6590	568	17.78	4	6.99	97	3.04	4	7.04	22	38.73	137	241.20	30	52.82	51	89.79	38	66.90
083	Central Coast	2043	139	14.22	–	–	59	6.04	2	14.39	7	50.36	26	187.05	23	165.47	15	107.91	12	86.33
085	Vancouver Island North	15501	1060	13.67	6	5.63	295	3.80	10	9.43	54	50.94	214	201.89	94	88.68	155	146.23	100	94.34
087/094	Stikine/Telegraph Creek	1995	115	11.62	5	41.67	43	4.35	–	–	9	78.26	13	113.04	11	95.65	13	113.04	10	86.96
088	Terrace	23970	1632	13.85	10	6.09	526	4.46	7	4.29	73	44.73	310	189.95	108	66.18	153	93.75	143	87.62
092	Nishga	2323	163	15.11	–	–	51	4.73	1	6.13	9	55.21	30	184.05	20	122.70	22	134.97	19	116.56
161	Vancouver City Centre	94827	2996	6.93	29	9.59	3577	8.27	6	2.00	154	51.40	672	224.30	195	65.09	17	5.67	724	241.66
162	Vancouver Downtown E. Side	52826	2676	10.45	22	8.15	3027	11.82	15	5.61	151	56.43	509	190.21	213	79.60	119	44.47	548	204.78
163	Vancouver North East	94659	6137	13.29	48	7.76	2732	5.92	36	5.87	378	61.59	1246	203.03	446	72.67	177	28.84	1180	192.28
164	Vancouver West Side	122678	4924	8.17	32	6.46	4087	6.79	10	2.03	236	47.93	1017	206.54	321	65.19	24	4.87	1564	317.63
165	Vancouver Midtown	85725	5853	13.91	43	7.29	2642	6.28	46	7.86	366	62.53	1281	218.86	474	80.98	141	24.09	1424	243.29
166	Vancouver South	118875	7080	11.95	57	7.99	4111	6.94	32	4.52	392	55.37	1476	208.47	490	69.21	176	24.86	1494	211.02
	N.S.	–	229		26		58		–		17		38		17		18		22	
	PROVINCIAL TOTAL	**4029253**	**221642**	**11.27**	**1549**	**6.94**	**136486**	**6.94**	**1036**	**4.67**	**11263**	**50.82**	**46070**	**207.86**	**14301**	**64.52**	**11088**	**50.03**	**35739**	**161.25**

Local Health Area		01 All Causes of Death SMR	Death	TR	PYLLI	D <75	02 All Cancer Sites SMR	Death	TR	PYLLI	D <75	03 Lung Cancer SMR	Death	TR	PYLLI	D <75	04 End/Nut/Met. Diseases etc. SMR	Death	TR	PYLLI	D <75	05 Diabetes SMR	Death	TR	PYLLI	D <75	06 Circulatory System SMR	Death	TR	PYLLI	D <75
001	Fernie	0.94	363	▲	0.76	187	1.07	117		0.94	76	1.19	35	▲*	1.01	26	0.63	7		0.22	2	0.37	3	▲	–	–	1.11	145	▲	0.94	53
002	Cranbrook	1.06	805		0.86	353	1.02	217	▲*	0.84	127	1.32	76	▲*	1.06	46	1.72	38	▲*	0.83	13	1.59	26	▲*	0.95	10	1.16	306		0.87	89
003	Kimberley	0.96	380	▲	0.88	153	0.85	92	▲	0.81	56	0.87	25		0.74	14	0.94	11		1.82	9	1.03	9		1.88	7	1.01	149	▲	0.77	78
004	Windermere	0.80	205		0.86	109	0.81	61	▲	0.90	43	0.68	14	▲	0.59	9	2.00	15		0.47	4	2.33	13	▲*	0.45	2	0.63	55	▲	0.95	21
005	Creston	0.92	643	▲	0.99	238	0.93	175		0.98	95	0.93	47		0.82	30	1.00	21		0.55	7	0.64	10	▲	0.54	4	0.89	241	▲	0.78	60
006/007	Kootenay Lake/Nelson	1.00	1034		1.21	450	1.00	280		1.05	160	0.97	72	▲*	1.06	48	1.12	34	▲*	2.10	16	1.11	25	▲*	0.91	10	0.95	361	▲	1.00	110
009	Castlegar	1.04	515		1.11	238	1.01	134		1.13	85	0.99	35		0.93	23	1.38	20		0.53	7	1.77	19		0.85	7	1.09	200	▲	0.92	63
010	Arrow Lakes	1.05	245		1.10	97	1.18	72	▲*	1.28	42	0.99	16		1.09	11	0.15	1		–	–	0.20	1		–	–	0.87	77		1.23	23
011	Trail	1.12	1061		1.13	417	1.09	272		1.31	166	0.97	64	▲	1.43	47	1.60	45	▲*	1.34	15	1.67	35	▲*	1.09	10	1.19	425	▲	1.19	115
012/013	Grand Forks/Kettle Valley	1.03	577	▲	1.21	267	1.03	163		1.10	105	0.74	32		0.95	24	1.38	23		1.02	9	1.59	20		1.43	8	0.99	206	▲	1.11	67
014	Southern Okanagan	0.97	1117	▲	1.05	426	0.96	310		1.13	168	1.02	90		1.31	57	0.71	25		0.94	8	0.56	15	▲	0.92	5	1.05	466	▲	1.04	140
015	Penticton	0.95	2207		0.93	763	0.97	587		0.92	276	0.82	132		0.66	67	1.06	74		1.26	26	1.15	60	▲*	1.55	20	0.95	864		1.06	224
016	Keremeos	1.02	255		1.24	121	1.13	82		1.10	51	1.14	23		1.12	14	1.06	8		1.27	3	0.86	5		1.11	2	1.01	95		1.20	35
017	Princeton	1.17	234		1.22	120	1.15	68		0.90	41	1.53	25	▲*	1.74	21	1.01	6		0.90	3	1.12	5		1.28	2	1.17	83		1.46	39
018	Golden	1.07	182		1.05	107	1.02	49		1.09	37	1.24	16		0.97	12	0.83	4		0.24	2	0.85	3		0.42	2	1.12	62		1.05	27
019	Revelstoke	1.28	302	▲*	1.12	136	1.01	67		0.96	42	1.07	19	▲	1.20	14	1.32	9		1.38	4	1.20	6		1.40	3	1.60	130		1.82	47
020	Salmon Arm	0.95	1309		0.99	575	0.97	381		1.04	224	1.04	111	▲*	1.09	69	0.82	34		0.45	11	0.84	26		0.68	10	0.98	502	▲	0.94	166
021	Armstrong–Spallumcheen	1.06	377		0.92	150	1.01	99	▲*	0.84	55	0.87	23		0.53	13	0.95	10	▲*	0.97	6	1.02	8	▲*	1.06	5	1.21	158		0.99	40
022	Vernon	1.03	2527		1.07	1012	1.00	669		1.10	372	1.05	187	▲*	1.13	116	1.10	80		0.94	32	1.18	64		0.85	25	1.06	970	▲	1.08	281
023	Central Okanagan	0.88	5553	▲	0.84	2075	0.91	1554	▲	0.91	823	0.87	397		0.93	239	0.67	127		0.71	44	0.59	83		0.58	26	0.87	2071	▲	0.81	538
024	Kamloops	1.10	3359		1.15	1734	1.00	868		0.93	540	1.10	258	▲	1.03	171	1.15	102		1.20	46	1.12	74		1.36	34	1.05	1115	▲	1.24	455
025	100 Mile House	1.14	519	▲	1.33	323	0.94	133	▲	0.94	99	1.19	47		1.15	33	0.82	11	▲	1.89	8	0.60	6	▲	1.00	4	1.25	190		1.35	90
026	North Thompson	1.16	125		1.23	78	1.21	39		1.27	26	1.37	12		1.43	9	1.30	4		4.17	4	0.45	1		0.71	1	1.20	41		1.33	21
027	Cariboo–Chilcotin	1.23	732		1.36	438	1.00	172		1.03	118	0.99	46		1.13	33	1.31	22	▲*	1.32	14	1.55	19	▲*	1.79	12	1.23	234		1.33	110
028	Quesnel	1.15	737	▲	1.16	420	1.16	214	▲*	1.01	147	1.39	70		1.01	53	0.98	18	▲	0.56	8	0.88	12		0.59	5	1.06	226	▲	0.96	95
029	Lillooet	1.32	170	▲	1.40	89	1.16	41		0.98	22	0.64	6		0.43	5	1.62	6		0.09	1	1.84	5		0.16	1	1.21	54		1.72	26
030	South Cariboo	1.12	282		1.53	166	0.97	72		1.09	47	1.56	32		1.63	25	0.67	5		1.69	4	0.36	2		1.59	2	0.99	87		1.19	45
031	Merritt	1.27	415	▲	1.57	242	1.08	100		1.11	65	0.76	19	▲	0.72	12	1.05	10		1.29	7	1.43	10		2.17	7	1.28	144	▲	1.52	63
032	Hope	1.32	442	▲*	1.65	234	1.29	124	▲*	1.25	81	1.37	36		1.61	27	1.60	16		2.17	9	1.33	10	▲	1.97	7	1.30	159		1.60	64
033	Chilliwack	1.06	2845	▲	1.12	1195	1.10	804		1.15	458	1.06	207	▲	1.23	128	1.03	82	▲*	0.92	34	1.18	70	▲*	1.07	29	1.08	1072	▲	0.94	294
034	Abbotsford	0.96	3956		0.94	1485	0.92	993		1.00	527	0.94	266	▲*	1.14	164	0.91	110	▲*	1.07	49	0.88	79		0.90	33	1.05	1609	▲	1.00	398
035	Langley	1.01	3485	▲	0.92	1525	1.12	1047		1.20	645	1.13	282		1.12	172	1.05	105		0.77	41	1.05	78		0.75	25	1.04	1284	▲	1.01	375
036	Surrey	0.95	10156	▲*	0.94	4511	0.96	2769	▲*	0.98	1605	0.95	724	▲	1.02	479	0.97	301	▲*	1.03	144	1.01	232		1.12	110	1.01	3859	▲	1.00	1190
037	Delta	0.91	2585	▲	0.73	1077	0.99	776	▲	0.96	458	0.91	191		0.86	123	0.87	71		0.61	29	0.98	59		0.68	22	0.96	951	▲	0.79	286
038	Richmond	0.81	3876	▲	0.65	1616	0.86	1127	▲	0.80	669	0.91	316		0.74	193	0.87	121		0.51	44	0.83	85		0.57	33	0.83	1415	▲	0.73	421
040	New Westminster	1.15	2525	▲	1.23	946	1.11	610	▲	1.05	301	1.23	174		1.27	97	1.35	87	▲*	1.61	36	1.40	66		1.57	27	1.14	956	▲	1.28	235
041	Burnaby	0.98	6758	▲	0.85	2587	1.00	1804		0.99	984	0.99	471		1.01	274	1.07	215		1.13	88	1.06	158		1.06	64	1.02	2610	▲	0.81	656
042	Maple Ridge	1.12	2279	▲	0.97	1056	1.20	668		1.16	397	1.21	178		1.20	115	1.28	75	▲*	0.86	28	1.41	61	▲*	0.84	19	1.20	853	▲	1.14	280
043	Coquitlam	0.99	4180	▲	0.81	2077	1.05	1232	▲	1.10	831	1.11	344		1.00	223	1.18	142		1.09	69	1.35	118	▲*	1.36	56	1.05	1472	▲	0.92	528
044	North Vancouver	0.97	3893	▲	0.76	1574	1.00	1109	▲	0.89	624	0.95	279		0.80	159	0.90	105		0.69	48	0.89	77		0.72	33	0.98	1397	▲	0.76	399
045	West Vancouver–Bowen Is.	0.59	612	0.86	0.86	602	▲	0.72	273

TABLE B

MORTALITY IN BRITISH COLUMBIA BY LOCAL HEALTH AREA

BRITISH COLUMBIA 1995–1999

| Cancer | | | | | 04 End/Nut/Met Diseases etc | | | | | 05 Diabetes | | | | | 06 Circulatory System | | | | | 07 Ischaemic Heart Disease | | | | | 08 Cerebro Disease/Stroke | | | | | 09 Arteries/Arterioles/Capillaries | | | | | 10 Respiratory System | | | | | 11 Pneumonia and Influenza | | | | | 12 Chronic Lung Disease | | | | | 13 Digestive System | | | | | 14 Motor Vehicle Traffic Accidents | | | | | 15 Accidental Falls | | | | | 16 Suicide | | | | | SM |
|---|---|---

System		14 Motor Vehicle Traffic Accidents					15 Accidental Falls					16 Suicide					17 Alcohol–related Deaths					18 Medically Treatable Disease					19 Drug–induced Deaths				
PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR*	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75
0.63	9	1.22	10		1.16	9	0.41	2		0.26	1	0.40	4		0.46	4	0.64	21		0.44	15	–	–		–	–	–	–		–	–
0.77	12	0.91	12		0.97	12	0.93	9		0.41	2	1.21	19		1.03	19	0.94	54	▲	0.97	44	0.49	2		0.56	2	0.53	8		0.52	7
0.40	4	1.46	7	▲	1.92	6	0.38	2		1.56	2	0.84	5		1.11	5	1.12	29	▲	1.18	24	0.66	1		0.66	1	0.55	3		0.47	3
0.28	1	1.12	5		1.31	5	–	–		–	–	1.07	6		1.22	6	1.05	22	▲	0.93	15	0.68	1		1.04	1	0.19	1		0.01	1
1.13	11	1.21	8		1.43	7	0.94	9	▲	0.07	1	0.85	7		1.25	7	0.90	38	▲	1.08	32	0.95	2		0.74	2	0.85	6		0.81	6
0.49	7	2.74	41	▲	3.01	37	1.35	19		2.92	6	1.31	24		1.35	24	1.33	95	▲	1.35	68	0.84	4		1.00	4	0.58	10		0.45	9
0.84	11	1.27	9		1.36	8	1.47	10		2.91	3	1.15	10		1.16	9	1.06	36	▲	1.31	31	0.90	2		0.97	2	0.98	8		0.77	7
1.52	5	1.45	4	▲	1.12	3	1.23	4		–	–	1.16	4		0.66	3	1.14	17		1.19	11	2.27	2		1.26	2	0.32	1		–	–
1.28	15	1.10	12		1.16	11	1.15	15		2.26	4	1.27	17		1.14	16	1.07	62	▲	0.99	45	0.89	3		0.61	3	0.80	10		0.77	9
1.24	13	2.67	18		2.87	16	1.11	8		–	–	1.06	9	▲	0.62	6	1.18	46	▲	1.91	38	1.34	3		1.39	3	0.92	7		0.92	7
1.10	19	1.44	14		1.05	10	1.40	21	▲	0.47	3	1.06	13	▲	1.35	11	0.95	68	▲	0.89	45	0.66	2		1.28	2	0.40	4		0.43	4
1.37	38	1.42	30	▲	1.09	23	1.31	43		0.84	11	0.97	25	▲	1.00	20	1.18	154	▲	1.34	102	1.15	7		0.93	7	0.65	15		0.56	14
1.97	5	2.52	6		4.09	6	1.63	5		9.76	2	2.24	7		1.69	5	1.17	20	▲	1.68	15	1.24	1		1.38	1	0.38	1		–	–
0.63	2	1.93	5		1.32	4	2.08	5		1.38	4	1.17	4		0.97	3	0.98	15	▲	1.37	12	–	–		–	–	0.65	2		0.49	2
1.38	5	1.30	5		1.71	5	–	–		–	–	0.84	4		1.10	4	0.60	9	▲	0.90	8	0.84	1		0.77	1	–	–		–	–
0.59	4	1.34	6		1.29	6	2.30	7		0.10	1	1.27	7		0.90	6	1.33	25	▲	0.87	15	–	–		–	–	0.18	1		0.10	1
1.20	26	2.23	36		2.29	32	1.29	23	▲	0.06	2	1.19	24		1.23	22	0.81	76	▲	1.03	58	1.14	6		1.26	6	0.61	11	▲	0.56	10
–	–	2.22	11	▲	2.51	9	0.85	4		0.28	1	0.50	3		0.63	3	0.77	19	▲	1.11	14	–	–		–	–	0.18	1		0.01	1
0.87	33	1.50	45		1.71	40	0.92	30		1.29	8	1.21	44		1.20	39	1.15	183	▲	1.28	143	0.65	6		0.85	6	0.80	27	▲	0.86	22
0.80	75	0.84	63	▲	0.86	59	0.94	81	▲	0.54	13	1.04	96		1.08	87	0.88	353	▲	1.07	259	0.57	13		0.60	13	0.54	46	▲	0.50	43
1.68	93	1.80	95		1.57	82	1.30	50		1.53	19	1.36	87	▲	1.31	81	1.40	329	▲	1.73	274	1.02	17		1.08	17	1.26	77	▲	1.24	72
1.56	14	2.66	21		2.62	21	1.39	7		2.93	3	1.20	12		0.97	10	1.65	66	▲	1.80	50	1.80	5		3.18	5	1.30	12	▲	1.31	12
1.59	5	3.47	9		3.02	7	0.79	1		1.15	1	0.63	2		0.25	2	0.98	10		0.77	10	1.18	1		0.51	1	0.32	1		0.26	1
1.25	16	3.21	47	▲	3.22	47	1.53	11		1.29	4	1.55	27		1.80	27	1.39	75	▲	1.45	60	1.55	7		1.22	7	0.29	5		0.36	5
0.97	12	2.07	28		2.10	27	1.92	15	▲	1.49	6	1.35	22		1.49	22	0.86	47	▲	0.98	39	0.96	4		1.15	4	0.51	8	▲	0.50	8
1.35	6	4.29	11	▲	4.00	11	0.59	1		3.59	1	1.66	5		1.84	5	2.38	24		1.60	19	1.35	1		0.57	1	0.34	1		0.28	1
2.80	8	2.31	9	▲	2.23	7	1.33	4		1.59	2	1.43	7		1.90	6	1.44	29		1.79	24	3.10	4		4.59	4	0.44	2		0.19	1
1.53	13	2.64	16		3.08	16	1.21	5		0.73	2	1.68	12	▲	1.88	12	2.23	57	▲	2.57	49	2.20	4		1.81	4	1.75	12		1.44	12
2.21	9	3.02	13		2.92	12	1.43	6		1.82	3	2.07	11		2.26	11	1.59	38	▲	1.84	30	0.73	1		0.34	1	1.66	8		1.74	8
1.12	45	1.56	55		1.74	52	1.09	39		1.44	11	1.07	45		1.01	40	0.90	158	▲	0.85	112	0.99	10		0.82	10	1.06	42	▲	0.98	39
0.92	54	0.86	50	▲	0.81	45	0.58	33		0.33	7	0.96	65		1.06	59	0.55	144	▲	0.59	106	0.95	15		0.94	15	0.90	58	▲	0.98	57
1.01	61	0.92	51	▲	0.93	48	0.79	36	▲	0.40	5	0.73	49		0.69	42	0.76	185	▲	0.57	134	1.55	26		1.59	26	0.69	45	▲	0.63	42
0.83	173	0.84	146	▲	0.88	137	0.67	95		0.63	22	0.80	168	▲	0.80	156	0.74	557	▲	0.68	414	1.03	53		1.07	53	1.04	213	▲	1.12	206
0.58	38	0.64	33	▲	0.61	27	0.87	32		0.98	12	0.53	33		0.62	31	0.66	142	▲	0.48	94	0.73	12		0.69	12	0.43	26	▲	0.46	25
0.62	59	0.52	43	▲	0.53	39	0.85	54		0.44	9	0.62	62		0.54	58	0.47	164	▲	0.35	118	0.50	13		0.43	13	0.49	48		0.41	42
1.23	38	0.61	17		0.61	15	0.93	30		0.65	5	1.35	48		1.36	47	1.38	180	▲	1.25	134	1.34	11	▲	1.40	11	2.11	76	▲	2.05	72
1.20	124	0.69	70	▲	0.71	64	0.83	80	▲	0.69	16	0.76	94		0.73	85	0.83	376	▲	0.67	273	0.60	18		0.56	18	0.85	102	▲	0.85	98
0.98	34	0.98	36	▲	0.88	33	0.79	21	▲	0.75	8	0.96	43	▲	0.98	41	0.82	125	▲	0.61	95	1.15	13		1.07	13	0.55	25		0.51	25
0.61	62	0.43	39	▲	0.44	34	0.83	45	▲	0.57	15	0.74	83	▲	0.72	79	0.79	273	▲	0.53	195	0.76	22	▲	0.82	22	0.58	66	▲	0.56	62
0.63	53	0.57	37	▲	0.52	30	1.02	54		1.57	19	0.77	63		0.75	56	0.88	257	▲	0.65	170	1.03	22		1.15	22	0.77	63	▲	0.84	60
0.56	23	0.50	13	▲	0.43	10	0.82	32		1.06	8	0.62	20		0.50	14	0.60	94	▲	0.52	61	0.58	5		0.52	5	0.64	18		0.48	13
1.02	22	0.84	11	▲	0.71	9	1.46	21	▲	2.35	7	1.25	21		1.46	21	1.21	92	▲	1.20	71	0.91	4		0.88	4	0.90	14		0.96	14
0.77	10	0.48	5	▲	0.32	5	1.09	12		0.17	2	1.29	17		1.16	14	1.39	77	▲	1.65	60	1.48	5		1.22	5	0.90	11	▲	1.12	11
0.35	4	1.71	27		1.68	26	2.03	12	▲	2.82	8	1.07	20		1.06	20	1.76	83	▲	1.88	72	0.48	2		0.46	2	0.68	13	▲	0.55	12
0.74	2	5.54	9		3.41	9	5.19	4		5.97	3	2.03	4		1.78	4	2.83	17		2.22	15	2.01	1		1.51	1	0.51	1		0.19	1
1.48	4	0.70	2	▲	1.00	2	1.53	2		–	–	3.04	11		2.58	11	2.84	29	▲	2.25	25	1.13	1		1.22	1	1.07	4		0.89	4
–	–	2.07	1		2.64	1	–	–		–	–	–	–		–	–	0.62	1		0.64	1	–	–		–	–	–	–		–	–
1.58	13	0.62	6	▲	0.54	6	1.92	9	▲	2.40	6	1.31	15		1.57	15	2.15	71	▲	2.08	62	1.79	5		1.61	5	0.95	11		1.02	11
0.61	2	2.66	8		2.69	8	1.53	2		2.30	2	0.88	3		0.70	3	2.29	22	▲	2.12	17	2.55	2		3.46	2	0.59	2		0.74	2
0.57	6	2.17	20	▲	2.45	20	0.47	2		0.51	1	0.64	7	▲	0.53	7	1.19	37	▲	1.20	33	0.38	1		0.27	1	0.09	1		0.10	1
2.66	7	4.83	19		4.69	18	1.30	3		2.58	1	0.86	4	▲	1.09	4	1.12	18	▲	1.27	14	1.74	2		1.50	2	0.91	4		1.18	4
1.23	9	3.14	29		3.25	27	0.69	3		0.66	2	1.13	12		1.11	12	1.23	40	▲	0.98	33	1.54	4		1.53	4	0.29	3		0.19	2
1.32	63	1.89	101	▲	1.74	95	0.93	21	▲	0.44	7	0.80	51	▲	0.91	51	1.00	181	▲	0.80	155	1.19	19		1.11	19	0.69	44	▲	0.65	43
0.77	10	1.58	23	▲	1.80	23	1.17	10		0.06	2	0.98	17		1.00	17	1.29	70	▲	1.46	62	1.39	6		1.43	6	0.34	6		0.38	6
0.55	8	1.80	27		1.85	27	0.45	3		–	–	0.64	11	▲	0.60	11	0.84	41	▲	0.60	33	0.96	4		0.78	4	0.58	10		0.57	10
1.01	122	0.29	33	▲	0.28	26	1.28	217		0.95	28	1.15	156	▲	1.13	135	1.08	621	▲	1.01	411	0.96	30		1.03	30	1.43	185	▲	1.47	175
0.55	17	0.65	17	▲	0.66	15	1.07	18		0.84	6	0.89	29		0.84	28	0.94	103	▲	0.73	79	0.60	5		0.52	5	0.49	16		0.50	15
0.69	30	0.51	16		0.79	16	0.64	27	▲	0.36	7	1.09	43		1.15	37	0.71	140	▲	0.58	74	0.50	5	▲	0.61	5	0.49	17	▲	0.36	12
0.85	6	0.85	6	▲	0.61	5	0.92	9		1.01	1	0.64	6	▲	0.69	6	0.89	44	▲	0.94	29	–	–		–	–	0.25	2		0.36	2
1.43	37	1.38	36		1.47	31	0.89	22		0.18	2	1.31	42		1.46	35	0.91	121	▲	1.04	94	0.60	5		0.59	5	0.53	16		0.50	14
0.91	6	1.84	6		1.54	5	–	–		–	–	1.23	5		1.53	5	0.82	13	▲	0.85	12	0.95	1		0.75	1	0.52	2		0.62	2
1.10	14	1.47	12		0.88	5	1.59	15	▲	2.46	5	1.65	17		1.91	16	1.27	61	▲	1.85	50	1.92	5		1.94	5	0.96	9	▲	1.00	8
0.64	45	0.98	46	▲	0.93	43	1.21	53	▲	0.92	8	1.24	71		1.19	68	1.07	245	▲	1.36	201	0.98	14	▲	0.88	14	1.14	62	▲	1.19	61
1.16	34	1.79	35		2.11	32	1.35	35	▲	3.80	10	0.59	15	▲	0.76	14	0.72	99	▲	0.95	79	1.24	8		1.04	8	0.41	9		0.47	7
0.82	21	1.23	21		1.44	18	1.15	15	▲	1.02	5	1.78	37	▲	2.13	37	1.54	120	▲	1.84	105	1.31	7		1.38	7	1.17	23	▲	1.37	23
0.72	32	1.07	31	▲	1.07	28	0.96	24		0.90	6	1.52	55		1.61	52	0.81	119	▲	0.63	82	1.04	10		1.00	10	1.02	35	▲	1.02	32
0.93	21	0.93	21	▲	0.97	21	1.11	15		0.44	5	0.93	26		0.96	24	1.48	136	▲	1.48	113	0.83	6		0.85	6	1.16	32	▲	1.18	31
1.14	26	0.99	18	▲	0.90	16	1.82	24	▲	2.12	9	1.14	25		0.88	21	0.86	66	▲	0.73	51	2.18	12		1.87	12	1.19	26	▲	1.13	25
0.74	5	3.37	14		3.39	12	0.64	2		–	–	0.76	4		0.78	4	0.98	19		0.82	15	0.82	1		0.80	1	0.80	4		0.70	4
0.44	7	1.17	7	▲	0.80	6	0.72	7	▲	–	–	0.68	5		0.87	4	0.72	29		0.52	15	2.80	5		3.64	5	0.78	5		0.76	5
0.77	5	3.95	15	▲	5.02	15	1.24	5		0.49	2	1.93	9		2.04	9	1.52	31	▲	2.26	25	1.67	2		1.37	2	1.17	5		1.20	5
1.29	9	0.91	6	▲	1.07	6	0.40	1		–	–	1.14	9		1.36	9	1.11	26	▲	1.18	25	0.48	1		0.45	1	0.77	6		0.52	5
0.66	1	5.58	18		5.70	18	–	–		–	–	0.27	1		0.23	1	0.62	5		0.40	5	–	–		–	–	0.25	1		0.08	1
6.76	4	2.02	2		2.59	2	–	–		–	–	1.70	2		3.05	2	5.15	18	▲	6.03	16	7.11	2		10.09	2	0.87	1		0.68	1
1.45	10	1.42	11		1.40	11	1.39	4		1.40	2	1.79	17		1.91	17	2.22	58	▲	2.22	53	0.83	2		1.38	2	1.15	11	▲	0.98	11
–	–	4.08	4		4.82	4	–	–		–	–	5.84	7		7.36	7	3.41	13	▲	5.71	11	–	–		–	–	–	–		–	–
0.96	8	2.02	24		1.94	23	1.71	9		0.14	2	1.36	19		1.34	19	1.60	65	▲	1.64	60	0.88	3		0.93	3	0.65	9		0.47	9
0.99	2	0.89	1		0.37	1	–	–		–	–	–	–		–	–	3.15	11	▲	2.51	10	3.53	1		1.41	1	0.84	1		0.89	1
1.54	71	0.40	20	▲	0.29	17	1.04	48		2.08	20	1.62	107		1.47	96	1.58	318	▲	1.62	261	1.51	21		1.68	21	2.17	152	▲	2.09	151
4.57	122	0.84	24	▲	0.56	18	2.01	56		5.80	37	2.14	82	▲	2.21	78	4.26	590	▲	5.66	546	4.73	39		4.80	39	7.86	302	▲	7.91	302
0.99	54	0.59	29	▲	0.60	26	0.96	39	▲	0.60	8	0.62	37	▲	0.56	36	0.79	169	▲	0.72	134	0.90	13		0.80	13	1.33	77	▲	1.30	74
0.68	47	0.41	27	▲	0.33	21	0.93	68		1.13	13	0.79	63		0.82	58	0.58	162	▲	0.50	107	0.47	9		0.35	9	0.52	41		0.45	37
1.20	44	0.45	20	▲	0.26	16	0.76	28	▲	1.34	12	0.90	50		0.82	47	1.21	222	▲	1.09	167	0.92	12		0.72	12	1.50	85	▲	1.51	81
0.99	58	0.75	48	▲	0.67	43	0.77	50	▲	0.27	12	0.86	65		0.78	60	0.75	214	▲	0.62	144	1.07	20		0.98	20	0.89	65	▲	0.87	58
	1		–			–		–			–		4			4		12			11		–			–		4			4
	2256		2043	▲		1849		1848	▲		488		2496	▲		2307		9325	▲		7115		618			618		2417	▲		2304

TABLE C

SUMMARY STATISTICS BY HEALTH REGION

BRITISH COLUMBIA 1995–1999

Health Region		1999 Population	Live Birth Total	Live Birth Rate	Stillbirth Total	Stillbirth Rate[1]	Death Total	Death Rate	Infant Death Total	Infant Death Rate[1]	Low Birth Wt. Live Birth Total	Low Birth Wt. Live Birth Rate[1]	Cesarean Total	Cesarean Rate[1]	Pre–term Total	Pre–term Rate[1]	Teenage Mother Total	Teenage Mother Rate[1]	Elderly Gravida Total	Elderly Gravida Rate[1]
01	East Kootenay	82091	3844	9.61	21	5.43	2578	6.44	19	4.94	141	36.68	674	175.34	152	39.54	335	87.15	425	110.56
02	West Kootenay–Boundary	82514	3631	8.87	28	7.65	3432	8.39	21	5.78	180	49.57	673	185.35	199	54.81	227	62.52	490	134.95
03	North Okanagan	118511	5479	9.47	35	6.35	4845	8.37	23	4.20	246	44.90	1384	252.60	287	52.38	381	69.54	697	127.21
04	South Okanagan Similkameen	231125	10704	9.53	57	5.30	10098	8.99	51	4.76	575	53.72	2054	191.89	692	64.65	661	61.75	1502	140.32
05	Thompson	135890	7025	10.62	52	7.35	4351	6.58	34	4.84	369	52.53	1686	240.00	481	68.47	570	81.14	730	103.91
06	Fraser Valley	240511	15735	13.44	100	6.32	8726	7.45	72	4.58	745	47.35	3214	204.26	883	56.12	1083	68.83	1634	103.84
07	South Fraser Valley	568600	37223	13.50	271	7.23	16228	5.88	171	4.59	2073	55.69	7986	214.54	2494	67.00	1268	34.06	5294	142.22
08	Simon Fraser	318996	19274	12.53	131	6.75	8984	5.84	83	4.31	1001	51.94	3624	188.03	1276	66.20	632	32.79	3509	182.06
09	Coast Garibaldi	79025	4129	10.93	36	8.64	2508	6.64	17	4.12	192	46.50	806	195.20	253	61.27	236	57.16	700	169.53
10	Central Vancouver Island	243489	11634	9.80	71	6.07	9519	8.02	55	4.73	529	45.47	2340	201.13	782	67.22	945	81.23	1547	132.97
11	Upper Island/Central Coast	122545	6510	10.83	49	7.47	3637	6.05	42	6.45	314	48.23	1368	210.14	433	66.51	568	87.25	819	125.81
12	Cariboo	76776	4600	12.31	28	6.05	2079	5.56	26	5.65	230	50.00	1169	254.13	265	57.61	452	98.26	426	92.61
13	North West	91544	6324	13.94	52	8.16	1941	4.28	35	5.53	303	47.91	1256	198.61	444	70.21	626	98.99	658	104.05
14	Peace Liard	66459	4750	14.60	26	5.44	1370	4.21	14	2.95	177	37.26	911	191.79	244	51.37	428	90.11	443	93.26
15	Northern Interior	133430	8460	12.92	77	9.02	2933	4.48	54	6.38	419	49.53	1785	210.99	532	62.88	722	85.34	733	86.64
16	Vancouver	569590	29857	10.79	231	7.68	20312	7.34	145	4.86	1687	56.50	6226	208.53	2153	72.11	670	22.44	6969	233.41
17	Burnaby	190272	10157	10.82	63	6.16	6758	7.20	45	4.43	570	56.12	1686	165.99	695	68.43	326	32.10	2000	196.91
18	North Shore	179508	8631	9.72	52	5.99	6236	7.02	24	2.78	350	40.55	1688	195.57	493	57.12	104	12.05	2603	301.59
19	Richmond	164009	8287	10.50	57	6.83	3876	4.91	38	4.59	417	50.32	1788	215.76	533	64.32	145	17.50	1898	229.03
20	Capital	334368	15159	9.11	86	5.64	15997	9.61	67	4.42	728	48.02	3714	245.00	993	65.51	691	45.58	2640	174.15
	N.S.	229			26		58		–		17		38		17		18		22	
	Provincial Total	**4029253**	**221642**	**11.27**	**1549**	**6.94**	**136466**	**6.94**	**1036**	**4.67**	**11263**	**50.82**	**46070**	**207.86**	**14301**	**64.52**	**11088**	**50.03**	**35739**	**161.25**
16/19	Vancouver / Richmond	733599	38144	10.73	288	7.49	24188	6.80	183	4.80	2104	55.16	8014	210.10	2686	70.42	815	21.37	8867	232.46
08/17	Simon Fraser / Burnaby	509268	29431	11.88	194	6.55	15742	6.36	128	4.35	1571	53.38	5310	180.42	1971	66.97	958	32.55	5509	187.18

Health Region		01 All Causes of Death SMR	Death	TR	PYLLI	D <75	02 All Cancer Sites SMR	Death	TR	PYLLI	D <75	03 Lung Cancer SMR	Death	TR	PYLLI	D <75	04 End/Nut/Met. Diseases etc. SMR	Death	TR	PYLLI	D <75	05 Diabetes SMR	Death	TR	PYLLI	D <75	06 Circulatory System SMR	Death	TR	PYLLI	D
01	East Kootenay	0.97	2578	♣	0.88	1147	0.96	711		0.91	434	1.07	213	♥	0.90	137	1.23	96		0.69	37	1.10	64		0.71	25	1.00	958	♣	0.88	
02	West Kootenay–Boundary	1.05	3432	♣	1.17	1469	1.04	921		1.16	558	0.93	219		1.11	153	1.28	123	♥	1.32	47	1.39	100	♥	0.98	35	1.04	1269	♣	1.07	
03	North Okanagan	1.02	4845		1.07	2029	1.00	1305		1.04	738	1.04	366	♥	1.08	229	0.98	138		0.82	55	1.02	107		0.88	45	1.08	1893	♣	1.09	
04	South Okanagan Similkameen	0.92	10098	♣	0.90	3734	0.95	2806	♣	0.95	1468	0.90	715		0.95	422	0.80	263		0.95	94	0.76	186		0.90	63	0.92	3834	♣	0.90	1
05	Thompson	1.13	4351	♣	1.22	2309	1.02	1120		0.97	700	1.09	327	♣	1.04	222	1.13	127		1.32	62	1.10	92		1.38	45	1.07	1441	♣	1.28	
06	Fraser Valley	1.04	8726		1.06	3621	1.03	2316		1.11	1319	1.03	618		1.21	390	1.04	257	♥	0.99	109	1.08	198	♥	1.02	84	1.08	3338	♣	1.04	
07	South Fraser Valley	0.96	16226	♣	0.90	7113	1.00	4592	♣	1.02	2708	0.98	1197		1.01	774	0.97	477	♥	0.90	214	1.01	369	♥	0.96	157	1.01	6094	♣	0.97	1
08	Simon Fraser	1.06	8984	♣	0.92	4079	1.10	2510	♣	1.11	1529	1.16	696		1.10	435	1.25	304	♥	1.12	133	1.38	245	♥	1.28	102	1.11	3281	♣	1.04	1
09	Coast Garibaldi	1.04	2508	♣	1.03	1198	1.06	708		1.03	452	1.13	203		1.04	133	0.97	68		1.24	29	0.92	48		1.05	19	1.08	930	♣	1.08	
10	Central Vancouver Island	1.03	9519	♣	1.08	4268	1.02	2664	♣	1.02	1576	1.03	724	♣	1.05	462	0.92	254		1.18	111	0.93	192		1.00	74	1.05	3569	♣	1.17	1
11	Upper Island/Central Coast	1.09	3636	♣	1.11	1880	1.07	1025		1.01	658	1.06	274	♣	1.07	193	1.12	109	♥	0.83	50	1.18	85	♥	0.82	41	1.10	1270	♣	1.05	
12	Cariboo	1.18	2079	♣	1.30	1247	1.04	539		1.01	378	1.18	166		1.06	120	1.05	53	♣	1.29	32	1.00	37		1.10	21	1.17	672	♣	1.21	
13	North West	1.15	1941	♣	1.20	1235	0.99	476	♣	1.01	354	1.13	146		1.13	113	1.25	59		1.10	32	1.32	45	♥	1.23	24	1.18	622	♣	1.31	
14	Peace Liard	1.08	1370	♣	0.97	768	1.08	381	♥	0.86	252	1.23	115	♥	1.00	85	1.32	47	♥	0.94	29	1.51	39	♥	1.52	24	1.05	428	♣	1.16	
15	Northern Interior	1.20	2933	♣	1.18	1809	1.14	808		1.08	582	1.18	225	♣	1.21	173	1.42	97		1.19	55	1.35	67	♣	1.15	40	1.19	897	♣	1.24	
16	Vancouver	1.01	20312	♣	1.19	8820	0.94	4828	♣	0.97	2657	0.94	1255	♣	0.93	731	1.01	595		0.94	222	0.99	427	♥	0.99	171	0.92	6927	♣	1.02	1
17	Burnaby	0.98	6758	♣	0.85	2587	1.00	1804		0.99	984	0.99	471		1.01	274	1.07	215		1.13	88	1.06	158		1.06	64	1.02	2610	♣	0.81	
18	North Shore	0.93	6236	♣	0.71	2186	0.95	1711	♣	0.84	897	0.81	389		0.66	213	0.77	153		0.63	58	0.78	114		0.67	41	0.93	2315	♣	0.66	
19	Richmond	0.81	3876	♣	0.65	1616	0.86	1127	♣	0.80	669	0.91	316		0.74	193	0.87	121		0.51	44	0.83	85		0.57	33	0.83	1415	♣	0.73	
20	Capital	0.98	15997	♣	0.93	5136	1.03	4262		1.03	2047	1.00	1077		0.99	596	0.90	434	♥	1.21	158	0.82	294		1.05	107	0.95	5994	♣	0.93	1
	N.S.		58			47		7			6		2			1		2		2			1			1		15			
	Provincial Total		**136463**			**58298**		**36521**			**20966**		**9714**			**6049**		**3992**			**1661**		**2953**			**1216**		**49772**			**14**
16/19	Vancouver / Richmond	1.03	15742	♣	0.90	6666	1.06	4314	♣	1.06	2513	1.09	1167		1.06	709	1.17	519	♥	1.12	221	1.24	403	♥	1.19	166	1.07	5891	♣	0.95	1
08/17	Simon Fraser / Burnaby	0.97	24188	♣	1.07	10436	0.92	5955	♣	0.93	3326	0.93	1571	♣	0.89	924	0.99	716		0.84	266	0.96	512	♥	0.90	204	0.91	8342	♣	0.96	2

Note: Total is the number of events in the specified category for the 1995 to 1999 period.
Infant Death – deaths of children under one year of age.
Low Birth Weight live births – live births with birth weight <2,500 grams.
Cesarean – live births delivered by cesarean section.
Pre-term – live births with gestational age <37 weeks
Teenage Mother – live births to mothers under 20 years of age.
Elderly Gravida – live births to mothers 35 years of age or older.
Death is the total number of deaths from the specified cause for the 1995 to 1999 period.
D<75 is the number of deaths under 75 years of age from the specified cause.
SMR – Standardized Mortality Ratio.
PYLLI – Potential Years of Life Lost Index.
Rate – per 1,000 population in the specified area.
Rate[1] – rate per 1,000 live births in the specified area.
Rate[2] – per 1,000 total births in the specified area.
SMR PYLLI and Rate are based on the five year period from 1995 to 1999.
☐ Statistical testing indicates that observed deaths are statistically different from the expected deaths ($p<0.05$ two tailed).
. denotes statistical significance based on less than five cases.
TR – Trend in ASMR based on three year moving average from 1986 to 1999;
♥ indicates a statistically significantly positive (increasing) trend and
♣ indicates a statistically significantly negative (decreasing) trend (in areas with an average of less than 1 death per year in the 14 year period 1986 to 1999 trends are not shown).
See Glossary under Trend Analysis of ASMR for a full explanation.
TR* – Trend reflects change in *Medical Certification of Death* form introduced in 1993. Please see Highlights to Table 39 for details.
Five live births with gender unknown are excluded from Tables A and C.
Three deaths with gender unknown are excluded from mortality data in Tables B and D.
HR 16 Vancouver may include unspecified Vancouver addresses.
N.S. – Not Stated.
Non-residents are excluded.

TABLE D

MORTALITY IN BRITISH COLUMBIA BY HEALTH REGION

BRITISH COLUMBIA 1995–1999

| ncer | | 04 End/Nut/Met. Diseases etc | | | | | 05 Diabetes | | | | | 06 Circulatory System | | | | | 07 Ischaemic Heart Disease | | | | | 08 Cerebro. Disease/Stroke | | | | | 09 Arteries/Arterioles/Capillaries | | | | | 10 Respiratory System | | | | | 11 Pneumonia and Influenza | | | | | 12 Chronic Lung Disease | | | | | 13 Digestive System | | | | | 14 Motor Vehicle Traffic Accidents | | | | | 15 Accidental Falls | | | | | 16 Suicide | | | | | |
|---|---|---

14 Motor Vehicle Traffic Accidents					15 Accidental Falls					16 Suicide					17 Alcohol-related Deaths					18 Medically Treatable Disease					19 Drug-induced Deaths				
	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR*	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75
4	47	▲	1.29	44	0.64	22	▲	0.37	6	0.89	45		0.98	45	0.89	173	▼	0.89	138	0.54	7		0.56	7	0.38	18		0.32	17
98	84		2.13	75	1.26	56	▼	2.10	13	1.22	64		1.11	58	1.18	256	▼	1.34	193	1.04	14		0.98	14	0.74	36	▼	0.63	32
00	113	▲	2.11	102	1.11	69		0.72	14	1.19	87		1.19	79	1.05	334	▼	1.23	255	0.75	14		0.85	14	0.67	45	▼	0.67	39
07	125	▲	0.98	108	1.09	162		0.77	33	1.04	150		1.09	130	0.94	639	▼	1.10	448	0.79	28		0.86	28	0.56	73	▼	0.51	68
06	140	▲	1.90	123	1.26	61		1.52	25	1.37	113		1.37	106	1.49	449	▼	1.77	376	1.27	27		1.30	27	1.18	93	▼	1.13	87
25	150	▲	1.25	137	0.92	104	▼	0.98	30	1.05	150		1.05	135	0.77	425	▼	0.75	314	1.15	39		1.03	39	1.02	138	▼	1.02	133
92	230	▲	0.84	212	0.73	163	▲	0.65	39	0.74	250	▲	0.75	229	0.73	884	▼	0.62	642	1.08	91	▼	1.10	91	0.86	284	▼	0.90	273
59	92	▲	0.57	82	0.85	96		0.62	28	0.90	174	▲	0.89	167	0.92	578	▼	0.67	424	0.95	46		0.97	46	0.85	167	▼	0.82	159
09	43	▲	1.06	40	1.44	45	▼	1.98	17	1.19	58		1.21	55	1.41	252	▼	1.58	203	0.92	11		0.81	11	0.81	38	▼	0.81	37
29	156	▲	1.30	134	1.17	140	▼	1.29	30	1.25	187		1.38	175	1.03	659	▼	1.31	541	1.05	40	▲	0.98	40	0.87	121	▼	0.94	115
08	65	▲	1.11	62	1.03	43		0.78	13	1.34	100		1.43	95	1.24	331	▼	1.24	264	1.03	20		1.13	20	1.09	79	▼	1.07	75
79	105	▲	2.71	104	1.78	37	▼	1.91	16	1.42	65		1.52	63	1.33	205	▼	1.40	164	1.42	17		1.63	17	0.59	26		0.59	26
57	72	▲	1.65	71	1.21	25		0.79	11	1.31	71		1.35	71	1.75	275	▼	1.74	244	1.05	14		1.02	14	0.62	34		0.56	33
07	68	▲	2.23	68	0.81	13		0.03	2	0.76	29		0.74	29	1.04	116	▼	0.97	100	1.07	10		1.00	10	0.44	17		0.43	17
23	149	▲	2.11	140	0.93	27	▲	0.59	10	0.85	67	▲	0.94	67	1.04	239	▼	0.85	202	1.27	25		1.19	25	0.65	51	▼	0.62	49
56	169	▲	0.45	142	1.01	294	▲	1.64	107	1.09	409		1.04	380	1.30	1699	▼	1.40	1381	1.34	117	▲	1.28	117	1.98	742	▼	1.97	723
69	70	▲	0.11	64	0.83	80	▲	0.69	16	0.76	94		0.73	85	0.83	376	▼	0.67	273	0.60	18		0.56	18	0.85	102	▼	0.85	98
55	50	▲	0.50	40	0.94	86		1.43	27	0.73	83		0.69	70	0.78	351	▼	0.61	231	0.90	27		0.98	27	0.74	81	▼	0.76	73
52	43	▲	0.53	39	0.85	54		0.44	9	0.62	62		0.54	58	0.47	164	▼	0.35	118	0.50	13		0.43	13	0.49	48		0.41	42
41	72	▲	0.44	62	1.14	271		0.83	42	1.08	234		1.07	206	0.97	908	▼	0.88	593	0.77	40		0.83	40	1.07	220	▼	1.09	204
											4			4		12			11							4			4
	2043			**1849**		**1848**			**488**		**2496**			**2307**		**9325**			**7115**		**618**			**618**		**2417**			**2304**
63	162	▲	0.62	146	0.84	176	▲	0.65	44	0.85	268	▲	0.83	252	0.88	954	▼	0.67	697	0.82	64		0.82	64	0.85	269	▼	0.83	257
55	212	▲	0.47	181	0.98	348	▲	1.38	116	0.99	471	▲	0.94	438	1.13	1863	▼	1.18	1499	1.14	130		1.09	130	1.67	790	▼	1.65	765

TABLE C

SUMMARY STATISTICS BY HEALTH REGION

BRITISH COLUMBIA 1995–1999

Health Region		1999 Population	Live Birth Total	Live Birth Rate	Stillbirth Total	Stillbirth Rate[2]	Death Total	Death Rate	Infant Death Total	Infant Death Rate[1]	Low Birth Wt. Live Birth Total	Low Birth Wt. Live Birth Rate[1]	Cesarean Total	Cesarean Rate[1]	Pre–term Total	Pre–term Rate[1]	Teenage Mother Total	Teenage Mother Rate[1]	Elderly Gravida Total	Elderly Gravida Rate[1]
01	East Kootenay	82091	3844	9.61	21	5.43	2578	6.44	19	4.94	141	36.68	674	175.34	152	39.54	335	87.15	425	110.56
02	West Kootenay–Boundary	82514	3631	8.87	28	7.65	3432	8.39	21	5.78	180	49.57	673	185.35	199	54.81	227	62.52	490	134.95
03	North Okanagan	118511	5479	9.47	35	6.35	4845	8.37	23	4.20	246	44.90	1384	252.60	287	52.38	381	69.54	697	127.21
04	South Okanagan Similkameen	231125	10704	9.53	57	5.30	10098	8.99	51	4.76	575	53.72	2054	191.89	692	64.65	661	61.75	1502	140.32
05	Thompson	135890	7025	10.62	52	7.35	4351	6.58	34	4.84	369	52.53	1686	240.00	481	68.47	570	81.14	730	103.91
06	Fraser Valley	240511	15735	13.44	100	6.32	8726	7.45	72	4.58	745	47.35	3214	204.26	883	56.12	1083	68.83	1634	103.84
07	South Fraser Valley	568600	37223	13.50	271	7.23	16228	5.88	171	4.59	2073	55.69	7986	214.54	2494	67.00	1268	34.06	5294	142.22
08	Simon Fraser	318996	19274	12.53	131	6.75	8984	5.84	83	4.31	1001	51.94	3624	188.03	1276	66.20	632	32.79	3509	182.06
09	Coast Garibaldi	79025	4129	10.93	36	8.64	2508	6.64	17	4.12	192	46.50	806	195.20	253	61.27	236	57.16	700	169.53
10	Central Vancouver Island	243489	11634	9.80	71	6.07	9519	8.02	55	4.73	529	45.47	2340	201.13	782	67.22	945	81.23	1547	132.97
11	Upper Island/Central Coast	122545	6510	10.83	49	7.47	3637	6.05	42	6.45	314	48.23	1368	210.14	433	66.51	568	87.25	819	125.81
12	Cariboo	76776	4600	12.31	28	6.05	2079	5.56	26	5.65	230	50.00	1169	254.13	265	57.61	452	98.26	426	92.61
13	North West	91544	6324	13.94	52	8.16	1941	4.28	35	5.53	303	47.91	1256	198.61	444	70.21	626	98.99	658	104.05
14	Peace Liard	66459	4750	14.60	26	5.44	1370	4.21	14	2.95	177	37.26	911	191.79	244	51.37	428	90.11	443	93.26
15	Northern Interior	133430	8460	12.92	77	9.02	2933	4.48	54	6.38	419	49.53	1785	210.99	532	62.88	722	85.34	733	86.64
16	Vancouver	569590	29857	10.79	231	7.68	20312	7.34	145	4.86	1687	56.50	6226	208.53	2153	72.11	670	22.44	6969	233.41
17	Burnaby	190272	10157	10.82	63	6.16	6758	7.20	45	4.43	570	56.12	1686	165.99	695	68.43	326	32.10	2000	196.91
18	North Shore	179508	8631	9.72	52	5.99	6236	7.02	24	2.78	350	40.55	1688	195.57	493	57.12	104	12.05	2603	301.59
19	Richmond	164009	8287	10.50	57	6.83	3876	4.91	38	4.59	417	50.32	1788	215.76	533	64.32	145	17.50	1898	229.03
20	Capital	334368	15159	9.11	86	5.64	15997	9.61	67	4.42	728	48.02	3714	245.00	993	65.51	691	45.58	2640	174.15
	N.S.	229			26		58		–		17		38		17		18		22	
	Provincial Total	**4029253**	**221642**	**11.27**	**1549**	**6.94**	**138455**	**6.94**	**1036**	**4.67**	**11263**	**50.82**	**46070**	**207.86**	**14301**	**64.52**	**11088**	**50.03**	**35739**	**161.25**
16/19	Vancouver / Richmond	733599	38144	10.73	288	7.49	24188	6.80	183	4.80	2104	55.16	8014	210.10	2686	70.42	815	21.37	8867	232.46
08/17	Simon Fraser / Burnaby	509268	29431	11.88	194	6.55	15742	6.36	128	4.35	1571	53.38	5310	180.42	1971	66.97	958	32.55	5509	187.18

Health Region		01 All Causes of Death SMR	Death	TR	PYLLI	D <75	02 All Cancer Sites SMR	Death	TR	PYLLI	D <75	03 Lung Cancer SMR	Death	TR	PYLLI	D <75	04 End/Nut/Met. Diseases etc. SMR	Death	TR	PYLLI	D <75	05 Diabetes SMR	Death	TR	PYLLI	D <75	06 Circulatory System SMR	Death	TR	PYLLI	D <75
01	East Kootenay	0.97	2578	↓	0.88	1147	0.96	711		0.91	434	1.07	213	↑	0.90	137	1.23	96		0.69	37	1.10	64		0.71	25	1.00	958	↓	0.88	287
02	West Kootenay–Boundary	1.05	3432	↓	1.17	1469	1.04	921		1.16	558	0.93	219		1.11	153	1.28	123	↑	1.32	47	1.39	100	↑	0.98	35	1.04	1269	↓	1.07	378
03	North Okanagan	1.02	4845		1.07	2029	1.00	1305		1.04	738	1.04	366	↑	1.08	229	0.98	138		0.82	55	1.02	107		0.88	45	1.08	1893	↓	1.09	581
04	South Okanagan Similkameen	0.92	10098	↓	0.90	3734	0.95	2806	↓	0.95	1468	0.90	715	↓	0.95	422	0.80	263	↓	0.95	94	0.76	186		0.90	63	0.92	3834	↓	0.90	1024
05	Thompson	1.13	4351	↓	1.22	2309	1.02	1120		0.97	700	1.09	327	↓	1.04	222	1.13	127		1.32	62	1.10	92		1.38	45	1.07	1441	↓	1.28	607
06	Fraser Valley	1.04	8726		1.06	3621	1.03	2316		1.11	1319	1.03	618		1.21	390	1.04	257	↑	0.99	109	1.08	198	↑	1.02	84	1.08	3338	↓	1.04	923
07	South Fraser Valley	0.96	16226	↓	0.90	7113	1.00	4592	↓	1.02	2708	0.98	1197		1.01	774	0.97	477	↑	0.90	214	1.01	369	↑	0.96	157	1.01	6094	↓	0.97	1853
08	Simon Fraser	1.06	8984	↓	0.92	4079	1.10	2510	↓	1.11	1529	1.16	696		1.10	435	1.25	304	↑	1.12	133	1.38	245	↑	1.28	102	1.11	3281	↓	1.04	1043
09	Coast Garibaldi	1.04	2508	↓	1.03	1198	1.06	708		1.03	452	1.13	203		1.04	133	0.97	68		1.24	29	0.92	48		1.05	19	1.08	930	↓	1.08	309
10	Central Vancouver Island	1.03	9519	↓	1.08	4268	1.02	2664	↓	1.02	1576	1.03	724	↓	1.05	462	0.92	254		1.18	111	0.93	192		1.00	74	1.05	3569	↓	1.17	1191
11	Upper Island/Central Coast	1.09	3636	↓	1.11	1880	1.07	1025		1.01	658	1.06	274	↓	1.07	193	1.12	109	↑	0.83	50	1.18	85	↑	0.82	41	1.10	1270	↓	1.05	481
12	Cariboo	1.18	2079	↓	1.30	1247	1.04	539		1.01	378	1.18	166		1.06	120	1.05	53	↓	1.29	32	1.00	37		1.10	21	1.17	672	↓	1.21	310
13	North West	1.15	1941	↓	1.20	1235	0.99	476	↓	1.01	354	1.13	146		1.13	113	1.25	59		1.10	32	1.32	45	↑	1.23	24	1.18	622	↓	1.31	296
14	Peace Liard	1.08	1370	↓	0.97	768	1.08	381	↑	0.86	252	1.23	115	↑	1.00	85	1.32	47	↑	0.94	29	1.51	39	↑	1.52	24	1.05	428	↓	1.16	169
15	Northern Interior	1.20	2933	↓	1.18	1809	1.14	808		1.08	582	1.18	225	↓	1.21	173	1.42	97		1.19	55	1.35	67	↓	1.15	40	1.19	897	↓	1.24	438
16	Vancouver	1.01	20312	↓	1.19	8820	0.94	4828	↓	0.97	2657	0.94	1255	↓	0.93	731	1.01	595		0.94	222	0.99	427	↑	0.99	171	0.92	6927	↓	1.02	1927
17	Burnaby	0.98	6758	↓	0.85	2587	1.00	1804		0.99	984	0.99	471		1.01	274	1.07	215		1.13	88	1.06	158		1.06	64	1.02	2610	↓	0.81	656
18	North Shore	0.93	6236	↓	0.71	2186	0.95	1711	↓	0.84	897	0.81	389		0.66	213	0.77	153		0.63	58	0.78	114		0.67	41	0.93	2315	↓	0.66	543
19	Richmond	0.81	3876	↓	0.65	1616	0.86	1127	↓	0.80	669	0.91	316		0.74	193	0.87	121		0.51	44	0.83	85		0.57	33	0.83	1415	↓	0.73	421
20	Capital	0.98	15997	↓	0.93	5136	1.03	4262		1.03	2047	1.00	1077		0.99	596	0.90	434	↑	1.21	158	0.82	294		1.05	107	0.95	5994	↓	0.93	1263
	N.S.		58			47		7			6		2			1		2		2			1			1		15			9
	Provincial Total		**138463**			**58298**		**38621**			**20966**		**9714**			**6849**		**3992**			**1661**		**2953**			**1216**		**49772**			**14709**
16/19	Vancouver / Richmond	1.03	15742	↓	0.90	6666	1.06	4314	↓	1.06	2513	1.09	1167		1.06	709	1.17	519	↑	1.12	221	1.24	403	↑	1.19	166	1.07	5891	↓	0.95	1699
08/17	Simon Fraser / Burnaby	0.97	24188	↓	1.07	10436	0.92	5955	↓	0.93	3326	0.93	1571	↓	0.89	924	0.99	716		0.84	266	0.96	512	↑	0.90	204	0.91	8342	↓	0.96	2348

Note: Total is the number of events in the specified category for the 1995 to 1999 period.
Infant Death – deaths of children under one year of age.
Low Birth Weight live births – live births with birth weight <2,500 grams.
Cesarean – live births delivered by cesarean section.
Pre-term – live births with gestational age <37 weeks.
Teenage Mother – live births to mothers under 20 years of age.
Elderly Gravida – live births to mothers 35 years of age or older.
Death is the total number of deaths from the specified cause for the 1995 to 1999 period.
D<75 is the number of deaths under 75 years of age from the specified cause.
SMR – Standardized Mortality Ratio.
PYLLI – Potential Years of Life Lost Index.
Rate – per 1,000 population in the specified area.
Rate[1] – rate per 1,000 live births in the specified area.
Rate[2] – per 1,000 total births in the specified area.
SMR PYLLI and Rate are based on the five year period from 1995 to 1999.
☐ Statistical testing indicates that observed deaths are statistically different from the expected deaths ($p<0.05$ two tailed).
⋯ denotes statistical significance based on less than five cases.
TR – Trend in ASMR based on three year moving average from 1986 to 1999;
↑ indicates a statistically significantly positive (increasing) trend and
↓ indicates a statistically significantly negative (decreasing) trend (in areas with an average of less than 1 death per year in the 14 year period 1986 to 1999 trends are not shown).
See Glossary under Trend Analysis of ASMR for a full explanation.
TR* – Trend reflects change in *Medical Certification of Death* form introduced in 1993. Please see Highlights to Table 39 for details.
Five live births with gender unknown are excluded from Tables A and C.
Three deaths with gender unknown are excluded from mortality data in Tables B and D.
HR 16 Vancouver may include unspecified Vancouver addresses.
N.S. – Not Stated.
Non-residents are excluded.

TABLE D

MORTALITY IN BRITISH COLUMBIA BY HEALTH REGION

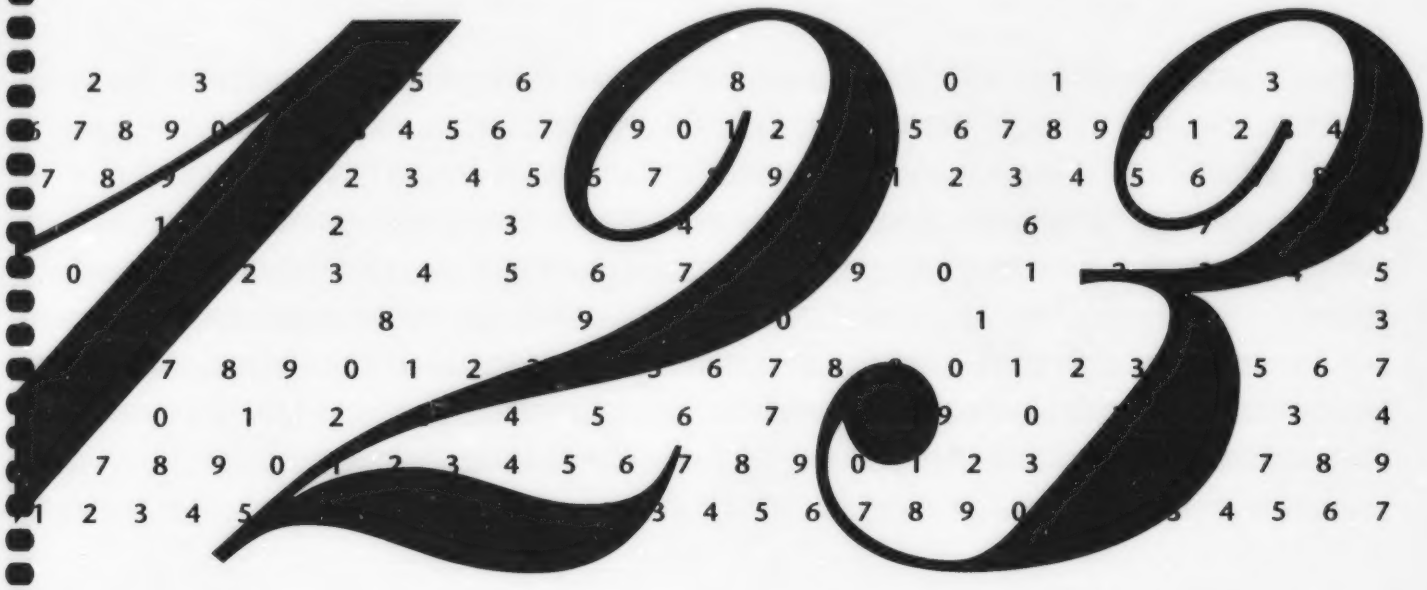
BRITISH COLUMBIA 1995–1999

| 03 Lung Cancer | | | | | 04 End/Nut/Met. Diseases etc. | | | | | 05 Diabetes | | | | | 06 Circulatory System | | | | | 07 Ischaemic Heart Disease | | | | | 08 Cerebro. Disease/Stroke | | | | | 09 Arteries/Arterioles/Capillaries | | | | | 10 Respiratory System | | | | | 11 Pneumonia and Influenza | | | | | 12 Chronic Lung Disease | | | | | 13 Digestive System | | | | | 14 Motor Vehicle Traffic Accidents | | | | | 15 Accidental Falls | | | | | 16 Suicide | | | | |
|---|---|---

	14 Motor Vehicle Traffic Accidents					15 Accidental Falls					16 Suicide					17 Alcohol–related Deaths					18 Medically Treatable Disease					19 Drug–induced Deaths				
5	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR*	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75	SMR	Death	TR	PYLLI	D <75
42	1.14	47		1.29	44	0.64	22		0.37	6	0.89	45		0.98	45	0.89	173		0.89	138	0.54	7		0.56	7	0.38	18		0.32	17
51	1.98	84		2.13	75	1.26	56		2.10	13	1.22	64		1.11	58	1.18	256		1.34	193	1.04	14		0.98	14	0.74	36		0.63	32
68	1.90	113		2.11	102	1.11	69		0.72	14	1.19	87		1.19	79	1.05	334		1.23	255	0.75	14		0.85	14	0.67	45		0.67	39
46	1.07	125		0.98	108	1.09	162		0.77	33	1.04	150		1.09	130	0.94	639		1.10	448	0.79	28		0.86	28	0.56	73		0.51	68
25	2.06	140		1.90	123	1.26	61		1.52	25	1.37	113		1.37	106	1.49	449		1.77	376	1.27	27		1.30	27	1.18	93		1.13	87
39	1.25	150		1.25	137	0.92	104		0.98	30	1.05	150		1.05	135	0.77	425		0.75	314	1.15	39		1.03	39	1.02	138		1.02	133
72	0.82	230		0.84	212	0.73	163		0.65	39	0.74	250		0.75	229	0.73	884		0.62	642	1.08	91		1.10	91	0.86	284		0.90	273
34	0.59	92		0.57	82	0.85	96		0.62	28	0.90	174		0.89	167	0.92	578		0.67	424	0.95	46		0.97	46	0.85	167		0.82	159
36	1.09	43		1.06	40	1.44	45		1.98	17	1.19	58		1.21	55	1.41	252		1.58	203	0.92	11		0.81	11	0.81	38		0.81	37
57	1.29	156		1.30	134	1.17	140		1.29	30	1.25	187		1.38	175	1.03	659		1.31	541	1.05	40		0.98	40	0.87	121		0.94	115
67	1.08	65		1.11	62	1.03	43		0.78	13	1.34	100		1.43	95	1.24	331		1.24	264	1.03	20		1.13	20	1.09	79		1.07	75
44	2.79	105		2.71	104	1.78	37		1.91	16	1.42	65		1.52	63	1.33	205		1.40	164	1.42	17		1.63	17	0.59	26		0.59	26
44	1.57	72		1.65	71	1.21	25		0.79	11	1.31	71		1.35	71	1.75	275		1.74	244	1.05	14		1.02	14	0.62	34		0.56	33
19	2.07	68		2.23	68	0.81	13		0.03	2	0.76	29		0.74	29	1.04	116		0.97	100	1.07	10		1.00	10	0.44	17		0.43	17
79	2.23	149		2.11	140	0.93	27		0.59	10	0.85	67		0.94	67	1.04	239		0.85	202	1.27	25		1.19	25	0.65	51		0.62	49
98	0.56	169		0.45	142	1.01	294		1.64	107	1.09	409		1.04	380	1.30	1699		1.40	1381	1.34	117		1.28	117	1.98	742		1.97	723
24	0.69	70		0.71	64	0.83	80		0.69	16	0.76	94		0.73	85	0.83	376		0.67	273	0.60	18		0.56	18	0.85	102		0.85	98
76	0.55	50		0.50	40	0.94	86		1.43	27	0.73	83		0.69	70	0.78	351		0.61	231	0.90	27		0.98	27	0.74	81		0.76	73
59	0.52	43		0.53	39	0.85	54		0.44	9	0.62	62		0.54	58	0.47	164		0.35	118	0.50	13		0.43	13	0.49	48		0.41	42
75	0.41	72		0.44	62	1.14	271		0.83	42	1.08	234		1.07	206	0.97	908		0.88	593	0.77	40		0.83	40	1.07	220		1.09	204
1												4			4		12			11							4			4
58		**2043**			**1849**		**1848**			**488**		**2496**			**2307**		**9325**			**7115**		**618**			**618**		**2417**			**2304**
58	0.63	162		0.62	146	0.84	176		0.65	44	0.85	268		0.83	252	0.88	954		0.67	697	0.82	64		0.82	64	0.85	269		0.83	257
57	0.55	212		0.47	181	0.98	348		1.36	116	0.99	471		0.94	438	1.13	1863		1.18	1499	1.14	130		1.09	130	1.67	790		1.65	765

Appendix 4

Health Status Indicator
Electronic Data Order Form



Preamble to Appendix 4

The Health Status Indicator Electronic Data Order Form, can be used to order copies of the data used to produce this report. A number of files are available for single years 1995 through 1999, and aggregated for years 1995–1999. The file format descriptions provided indicate the field columns, length, and information stored in that field. In each file, data for the diagnostic group requested is aggregated by these fields.

In death data, the "all causes of death" file includes data for each major diagnostic and all sub-diagnostic codes. The files by major diagnosis include data for the relevant sub-diagnoses. Readers wanting to order data are advised to contact the Information and Resource Management Branch of the British Columbia Vital Statistics Agency at the telephone or fax numbers shown on the order form.

BIRTH DATA, SINGLE YEAR – RECORD LAYOUT

COLUMNS	LENGTH	INFORMATION
1	1	"B" – for Birth
2–5	4	Birth year (19xx, where xx = 95,...,99)
6–8	3	Geographical area – "LHA" or "HR"
9–10	2	Geographical area – HR number
11	1	Gender (1 = Male, 2 = Female, 9 = Unknown)
12	1	Place of birth (1 = Hospital, 2 = Non-hospital, 9 = Unknown)
13–14	2	Mother's Age Group (01 = less than 15 years, 02 = 15–17 years, 03 = 18–19 years, 04 = 20–24 years,..., 09 = 45+ years)
15	1	Birth Weight Group (1 = less than 1500 gms, 2 = 1500–2499 gms, 3 = 2500–4499 gms, 4 = 4500+ gms, 9 = unknown)
16	1	Gestational Age Group (1 = less than 28 wks, 2 = 28–36 wks, 3 = 37–41 wks, 4 = 42+ wks, 9 = unknown)
17	1	Cesarean delivery (1 = yes, 2 = no)
18	1	Birth type (1 = live, 2 = stillbirth)
19	1	Kind of birth (1 = single, 2 = multiple, 9 = unknown)
20	1	Birth order (1, 2, 3,..., 6+, 9 = unknown)
21–25	5	Number of births
26–28	3	Geographical area – LHA number

DEATH DATA, SINGLE YEAR – RECORD LAYOUT

COLUMNS	LENGTH	INFORMATION
1	1	"D" – for Death
2–5	4	Death year (19xx, where xx = 95,...,99)
6–8	3	Geographical area – "LHA" or "HR"
9–10	2	Geographical area – HR number
11	1	Gender (1 = Male, 2 = Female, 9 = Unknown)
12–13	2	Age Group (01 = less than 1 year, 02 = 1–4 years, ..., 19 = 85+ years, 99 = Unknown)
14–16	3	Underlying cause of death
17–18	2	Major diagnosis category (01, 02, ..., 10)
19–20	2	Sub-diagnosis category (01, 02, ..., 19)
21–22	2	Alcohol related death (01 = yes, 00 = no)
23–24	2	Medically treatable death (01 = yes, 00 = no)
25–30	6	Number of deaths
31–33	3	Geographical area – LHA number

Note: Mid-year population estimates will be provided on a separate file by 5-year age group and gender for each LHA or HR. All data will be provided as a flat ASCII file.

BRITISH COLUMBIA VITAL STATISTICS AGENCY
1999 ANNUAL REPORT

SUMMARY STATISTICS
HEALTH STATUS INDICATOR ELECTRONIC DATA ORDER FORM

Name: _____

Organization: _____

Address: _____

_____

City: _____

Province/State: _____

Postal/Zip Code: _____

Telephone Number: ( ) _____

FAX Number: ( ) _____

e-mail: _____

Send your order and remittance to:

Attention: Ms Julie Macdonald
VITAL STATISTICS
MINISTRY OF HEALTH
PO BOX 9657 STN PROV GOVT
VICTORIA BC V8W 9P3
Phone: (250) 952-2558
1-800-663-8328 (toll-free within Canada)
FAX: (250) 952-2594

Please make cheque, money order or journal voucher payable to the "Minister of Finance."

The following data are available from 1995 to 1999 by single year (SYS), or aggregated (AG) by years 1995–1999. Within each file, data is aggregated by the data fields shown in the record layout.

BIRTH DATA

ITEM	DIAGNOSTIC TITLE	GEOG AREA *(circle one)*	UNIT PRICE PER YEAR	YEARS REQUIRED (AG) OR (SYS) *(circle year(s) required)*						TOTAL PRICE
F01	Live Births	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
F02	Stillbirths	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
F03	Low Birth Weight/Live Birth	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
F04	Cesarean	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
F05	Pre-term	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
F06	Teenage Mother	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
F07	Elderly Gravida	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
TOTAL										$ _____

DEATH DATA

ITEM	DIAGNOSTIC TITLE	GEOG AREA (circle one)	UNIT PRICE PER YEAR	YEARS REQUIRED (AG) OR (SYS) (circle year(s) required)						TOTAL PRICE
A00	All Causes of Death	LHA/HR	$300	95–99	95	96	97	98	99	$ _____
MAJOR DIAGNOSIS (ICD9 CODES)										
B01	Infectious/Parasitic (001–139)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
B02	Malignant Neoplasm (140–208)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
B03	Endocrine/Nutritional/Metabolic Immunity Disorders (240–279)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
B04	Circulatory System (390–459)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
B05	Respiratory System (460–519)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
B06	Digestive System (520–579)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
B07	Congenital Anomaly (740–759)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
B08	External Causes (E800–E999)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
SUB-DIAGNOSIS (ICD9 CODES)										
C01	AIDS/HIV Related (042–044)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
C02	Lung Cancer (162)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
C03	Female Breast Cancer (174)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
C04	Colorectal Cancer (153–154)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
C05	Cervical Cancer (180)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
C06	Prostate Cancer (185)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
C07	Diabetes (250)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
C08	Coronary Heart Disease (410–414, 429.2)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
C09	Cerebrovascular Disease/ Stroke (430–434, 436–438)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
C10	Arteries, Arterioles and Capillaries (440–448)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
C11	Pneumonia/Influenza (480–487)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
C12	Chronic Lung Disease (491–492, 496)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
C13	Asthma (493)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
C14	Chronic Liver and Cirrhosis (571)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
C15	Motor Vehicle Traffic Accidents (E810–E819)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
C16	Accidental Poisoning (E850–E869)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
C17	Accidental Falls (E880–E888)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
C18	Suicide/Self-inflicted Injury (E950–E959)	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
D00	Alcohol-related Deaths	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
E00	Deaths due to Medically Treatable Diseases	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
F00	Drug-induced Deaths	LHA/HR	$50	95–99	95	96	97	98	99	$ _____
TOTAL										$ _____